

CASTELServeur

User Manual



Summary

Presentation.....	8
Reference documents.....	8
General Description.....	8
Features.....	8
Client/Server application	8
IP communication on IP network	9
Data security	9
« System.xml » file.....	9
Database access	9
VDUC Communication settings.....	10
VDUC Auto Update at reconnection time	10
Default language for application	10
Recording parameters.....	10
Trace parameters	11
HTML parameters	11
Communication with CASTELAcces application parameters	12
Communication with CASTELSuperviseur application parameters	12
SQL scripting with the agenda	13
Application data save parameters	13
Macro-relation templates parameters	13
Reserved CASTEL	14
CASTELServeur Web Pages.....	15
Authentication	15
Home page	15
Users management	17
Features.....	17
Features group	19
User profile.....	21
Users.....	24

Material Management	27
Material Configuration.....	27
Material Tree	27
VDIP Network.....	29
Add a domain	30
Domain Management.....	31
Add a VDUC	32
Add a « VDUC Evo »	33
Add a XellIP workstation or door panel.....	35
Adding a XELLIP server	37
Time configuration.....	38
Configuration	40
The Functions	40
Functions Visualisation.....	40
Function detailed view	41
Adding/Modifying a Function	42
Adding/Modifying a state.....	42
Function commands	43
General SIP Configuration.....	43
Configuration general to all workstations and door panels	44
SIP servers configuration	46
General configuration for all XELLIP agents.....	47
The phone users.....	48
The directory.....	48
Code / Local Access	49
Schedule configuration.....	51
XELLIP servers.....	52
The general parameters	52
DialPlan	54
XELLIP Extensions	54
Call Groups	56
Paging groups	56

External systems	57
Inter Connection between two SIP systems.....	57
Connection type selection.....	58
The external servers	59
External Clients	60
External call rules	61
External Extensions.....	62
The VDUC	64
VDUC Management.....	64
VDUC Parameters	65
VDUC configuration	65
Bus RS485	66
Logical devices	67
VDUC local configuration.....	67
SIP Configuration.....	67
VDUC Evo.....	71
VDUC Evo material configuration	71
VDUC Evo « Management »	71
VDUC Evo « Configuration ».....	72
VDUC EVO « Parameters ».....	73
Local Interfaces configuration.....	73
Bus RS485	73
Logical devices	76
XELLIP workstations and door panels.....	78
Material configuration	78
« Management » Tab.....	78
« Configuration » Tab	79
XELLIP equipment configuration	80
Local interfaces "configuration" Tab.....	80
XELLIP equipment Local Configuration	81
SIP Configuration.....	81
Call Management.....	84
Functions Keys / Buttons.....	85
Lift configuration	85

Profiles Management	86
The phone users.....	92
Codes / Local Access.....	92
XELLIP Servers.....	93
Server Management	93
Server Configuration	93
RS485 Devices Management	95
VDIP device parameters.....	95
VDIP device Configuration.....	96
Aperio lock parameters	97
Aperio lock configuration.....	97
Interfaces Management.....	99
Reader Parameters	99
Reader Configuration	100
Table of correspondence between the card types and type of badge in CASTELServeur	101
Aperio reader parameters.....	103
Aperio reader configuration	104
Input Parameters.....	104
Input Configuration.....	106
Output Parameters	107
Output Configuration	108
VDUC Audio Interface Parameters	109
VDUC Audio Interface Configuration	110
XELLIP Audio Interface Parameters.....	111
XELLIP audio interface configuration	115
Commands associated to an audio interface	118
Configure an audio interface's associated command.....	119
VDUC Video Interface Parameters.....	120
VDUC Video interface configuration	121
XELLIP Video Interface Parameters.....	122
XELLIP Video interface configuration.....	123
Phone Line interface Parameters	124
Phone Line interface Configuration	124
Software Interface Parameters	125
Software Interface Configuration	126
Display Interface	126
Keyboard Interface	127

Equipment Connections	129
Serial Port Management	130
Serial Port parameters.....	130
Serial Port Configuration	131
Serial Messages Display	132
Visualisation/Configuration of a message.....	133
Action/Command on the serial port	134
VDMP Management.....	136
VDMP Peripheral.....	136
Audio Channels Configuration	137
Behaviour	139
Relations management	140
Relations Visualisation	140
Listing the relation by material element.....	140
Detailed visualisation of a relation.....	141
Adding/Modifying a Relation.....	142
Choosing the type of relation.....	142
Definition/edition of a relation	142
Simple logical event definition	145
Material element selection.....	147
Advanced logical event definition.....	148
Numerical event definition.....	149
Scheduled relation definition	151
Actions Definition.....	152
Configure a call on VDUC	154
Configure a call on XELLIP agents.....	157
Macro-relations management.....	160
Macro-relations visualisation	160
Visualisation of a macro-relation.....	161
Macro-relation configuration.....	162

Macro-relation duplication	162
Exporting a macro-relation.....	163
Using Macro-Relation templates	164
Legal holidays configuration.....	165
Legal holidays list.....	165
Legal holiday creation	166
Legal holiday remove	167
Legal holiday modification	168
Legal holidays group list.....	169
Legal holidays group modification	170
Functions scheduling.....	171
Functions scheduling behaviour principles	171
Function scheduling modification	173
Adding/Modifying a schedule	174
Perform an action command.....	175
Events Recording management	176
Recording Items	176
Recording – List of events	179
Recording – Real Time.....	179
Recording – Purge	180
Recording – Purge File	182
Recording – Purge File + remove	182
Scheduling management	185
Scheduling tasks.....	185
Data Application Management.....	189

PRESENTATION

Reference documents

This document makes reference several times to other software or material elements of the VDIP system architecture. For more details about these components, please refer to the appropriate documents:

- VDUC module documentation
- VDIP peripheral device documentation
- CASTELAcces documentation
- CASTELSuperviseur documentation
- VDIPMedia documentation
- XELLIP stations documentation
- XELLIP servers documentation
- VDUC Evo documentation

General Description

CASTELServeur can manage a VDIP system composed of CASTEL equipment such as **VDUC** (with the configured peripherals) or **XELLIP** workstations and servers. The main features available are:

- **VDIP system configuration:**
 - Configure the material behaviour
 - Perform commands on the material
 - Configure system users
 - Configure a recording parameters
 - Configure scheduling task in an agenda. (Database cleaning, material time update)
 - Save/Restore a full database configuration
- **Bridge** between material devices and "satellite" softwares (CASTELAcces and CASTELSuperviseur) for:
 - Ask for material information (state, release, etc...),
 - Send/Receive configuration data,
 - Perform remote commands,
 - Receive events
- **VDIP Users management:** The "satellite" softwares use **CASTELServeur** to manage users and their rights.

Features

Client/Server application

CASTELServeur is a client/server web application developed in Java language with the latest web technologies.

Its installation requires a database (SQL Server, Oracle, etc...) and a web server (Apache/Tomcat). (See Installation section for more details)

Once the installation is done, a user can access the software from any PC connected on the network by using a simple web navigator as Internet Explorer, Netscape, Firefox or else.

IP communication on IP network

Communication between **CASTELServeur** and the managed equipments is performed on a standard IP network and does not require any specific wiring.

Data security

Exchanges between **CASTELServeur** and VDIP system devices (VDUC or XELLIP equipments) are encrypted in order to provide communication privacy over the network. RC4, a symmetric key stream cipher is used.

SSL, a cryptographic protocol is used for communications between a web client and **CASTELServeur**.

« System.xml » file

« System.xml » is the application configuration file. This file is found under "Program Files/CASTELSuite/Tomcat6/webapps/CASTELServeur/conf".
To open it, please launch « Start→ Programs→ CASTELSuite → CASTELServeur→System.xml ».

It allows the user to configure the following items:

Database access

The following XML element is concerned:

```
<bdd>
  <factory>ausy.utils.data.SqlServerDataSourceFactory</factory>
  <factoryOracle>ausy.utils.data.OracleDataSourceFactory</factoryOracle
>
  <nom>XnetWebServeur</nom>
  <instance>XnetWebServeur</instance >
  <adresse>localhost</adresse>
  <port>1433</port>
  <user>vdip</user>
  <pass>CASTELvdip49</pass>
</bdd>
```

Only the **bold** fields can be modified:

1. **factory**: Rename <factory> tag by <factoryMSDE> and <factoryOracle> by <factory> for an Oracle configuration as VDIP works with <factory> tag.
2. **adresse** : IP Address used by the PC that holds the database,
3. **port**: TCP/IP port number used by database to provide a client communication with the TCP/IP network protocol. (default 1433),
4. **user and pass** : Login and password used to connect to the database.

VDUC Communication settings

The following part is implicated:

```
<modcom>
  <class>com.castel.xnet.xnetipcomm.XNetIPComm</class>
  <rc4key>CASTEL</rc4key>
  <rc4Endianness>LE</rc4Endianness>
</modcom>
```

Only the **bold** fields can be modified:

1. **rc4key**: Value of the encryption key used to crypt the data exchanged with the VDUCs. WARNING: if you change this value, you must also modify this value in the VDUCs, the XELLIP equipments and the VDIPMedia installations.

VDUC Auto Update at reconnection time

The following part is implicated:

```
<material>
  <VDUCAutoUpdateOnReconnection>true</VDUCAutoUpdateOnReconnection>
</material>
```

Only the **bold** fields can be modified:

1. **VDUCAutoUpdateOnReconnection**:
 - a. « true » indicates that the configuration of the equipment will be controlled on reconnection and will be updated automatically if incorrect.
 - b. « false » indicates that the equipment will not be updated at reconnection. The configuration will anyway be checked and the differences will be indicated in the web pages.

Default language for application

The following part is implicated:

```
<language>
  <default>fr</default>
</language>
```

Please specify the default language:

1. fr : French
2. en : English

Recording parameters

The following part is implicated:

```
<historyparam>
  <nbdays>1</nbdays>
  <filedepth>365</filedepth>
</historyparam>
```

Only the **bold** fields can be modified:

1. **nbdays**: This parameter allows the user to define the maximum number of days events should be kept in the database when a "database cleaning" task occurs in the agenda. The older events are cleaned and eventually stored in archive purge files depending on the "XML file filing" parameter.

Example: If nbdays equals 1 and if a « Cleaning database » task is scheduled in the night of the 5th and 6th of January, all events occurred the 5th are kept and all older events are removed from the database.

2. **filedepth**: This parameter is used to define the maximum number of days xml purge file should be kept on the hard disk. When a « database cleaning » task occurs, all older purge files will be removed

Example: If « filedepth » equals 365 and if a « Cleaning database » task is scheduled in the night of the 5th and 6th of January 2006, all xml files whose creation date is older than 5 January 2005 are definitively removed.

Trace parameters

The following part is implicated:

```
<trace>
  <state>1</state>
  <mode>FILE,CONSOLE</mode>
  <nb_logs>2</nb_logs>
  <size>10000000</size>
  <path>C:\Program Files\CASTELSuite\Server_log</path>
</trace>
```

Only the **bold** fields can be modified:

1. **nb_logs**: Maximum number of log files to keep. Beyond this value, the older files are removed from the hard disk.
2. **size**: Maximum size of log files in bytes.
3. **path**: Directory used for log files.

HTML parameters

The following part is implicated:

```
<webui>
  <session>
    <timeout>20</timeout>
  </session>
  <table>
    <nb_rows>40</nb_rows>
  </table>
  <scrollable>
```

```

        <height>500px</height>
    </scrollable>
</webui>

```

Only the **bold** fields can be modified:

1. **session:timeout**: specify the number of minutes the application maintains a user's session information since the last page request (-1 for no timeout)
2. **table:nb rows**: indicate the number of rows by page for the web page displaying a list of data
3. **scrollable:height**: Not used in CASTELServeur.

Communication with CASTELAcces application parameters

The following part is implicated:

```

<AccessConfigData>
  <RealTimeUpdating>true</RealTimeUpdating>
  <Secured>true</Secured>
  <Blocking>true</Blocking>
  <RelationManagement>true</RelationManagement>
</AccessConfigData>

```

Only the **bold** fields can be modified:

1. **RealTimeUpdating**:
 - a. **True**: All configuration data changes performed with CASTELAcces are transmitted in a real-time mode to the VDUC modules.
 - b. **False**: All configuration data changes performed with CASTELAcces are saved in the CASTELAcces database and the VDIP material is not updated. A complete configuration update will be necessary to update the VDUC.
2. **Secured**:
 - a. **True**: The VDUC guarantee that all supervised movement detected within a card reader (authorized or not) will be sent to **CASTELServeur** in order to guarantee the recording of each access. If the network is disconnected, the events will be kept in VDUC memory and then transmitted at network recovery.
 - b. **False**: The VDUC loses an access that occurs during a network disconnection.
3. **Blocking**: (used if Secured = true)
 - a. **True**: If the VDUC memory is full, all access is denied.
 - b. **False**: If the VDUC memory is full, the access is authorized but not recorded.
4. **RelationManagement**:
 - a. **True**: When an access point is created/modified/removed, a specific relation in CASTELServeur is associated with this access point.
 - b. **False**: No specific relation is associated with an access point in CASTELAcces.

Communication with CASTELSuperviseur application parameters

The following part is implicated:

```
<SupervisorConfigData>
  <Secured>true</Secured>
</SupervisorConfigData>.
```

Only the **bold** fields can be modified:

1. **Secured** :
 - c. **True** : The VDUC guarantees that all events detected will be sent to CASTELSuperviseur in order to guarantee the recording of each defaults or alarms or another events. If the network is disconnected, the events will be kept in VDUC memory and then transmitted at network recovery.
 - d. **False** : The VDUC loses an access that occurs during a network disconnection.

SQL scripting with the agenda

The following part is implicated:

```
<agenda>
  <SQLFile1>D:\Program
Files\CASTELSuite\SQLScript\Fichier1.txt</SQLFile1>
</agenda>
```

Only the **bold** fields can be modified:

1. **SQLFile1** : File containing the SQL scripts to be executed.

Application data save parameters

The following part is implicated:

```
<datasave>
<path>C:\Program Files\CASTELSuite\Datasave</path>
</datasave>
```

Only the **bold** fields can be modified:

1. **path** : Directory where database should be saved.
2. **maxfile** : Maximum files number to be kept on the directory.

Macro-relation templates parameters

The following part is implicated:

```
<MacroRelation>
<path>C:\Program Files\CASTELSuite\MR_Models</path>
</ MacroRelation >
```

Only the **bold** fields can be modified:

1. **path** : Directory where the macro-relations templates are stored (when loading the list or when adding a new one).

Reserved CASTEL

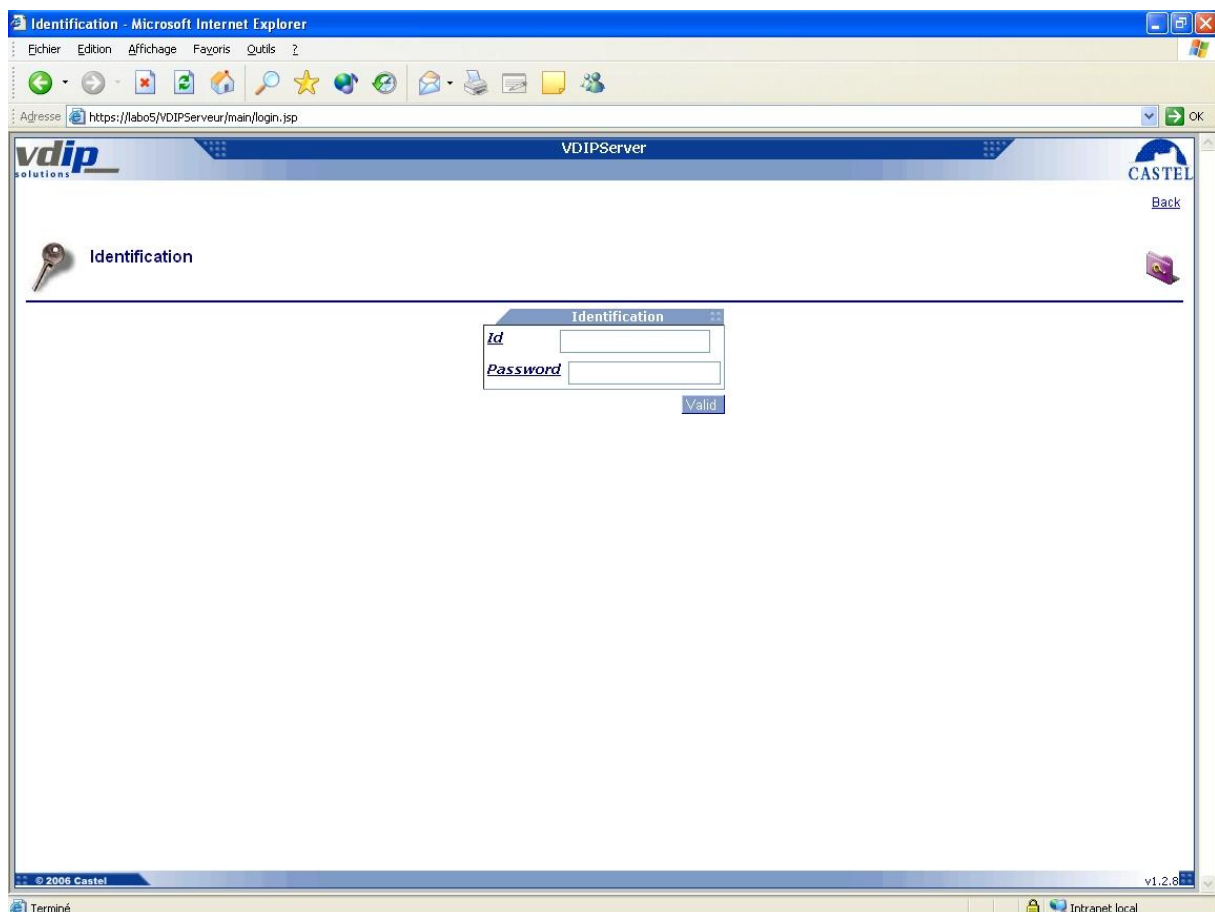
The following part is implicated:

```
<QueueSize>  
  <ClientInfoInitialCapacity>30000</ClientInfoInitialCapacity>  
  <EventManagerInitialCapacity>30000</EventManagerInitialCapacity>  
</QueueSize>
```

CASTELSERVEUR WEB PAGES

Authentication

- ❑ This page provides the identification process to the **CASTELServeur** application
- This page is reachable by launching a client session with « Start→ Programs→ CASTELSuite→ CASTELServeur→CASTELServeur » or by entering the following address in any web navigator: "https:// « Server name»/ CASTELServeur
- ✓ Enter your login and password then confirm your entry. First, the login and password should have been configured in **CASTELServeur**. Use the manufacturer default identification "castel/castel" for the first use.
- ✓ Login and password are mandatory. The password will appear in a hidden way (****) in order to ensure confidentiality.

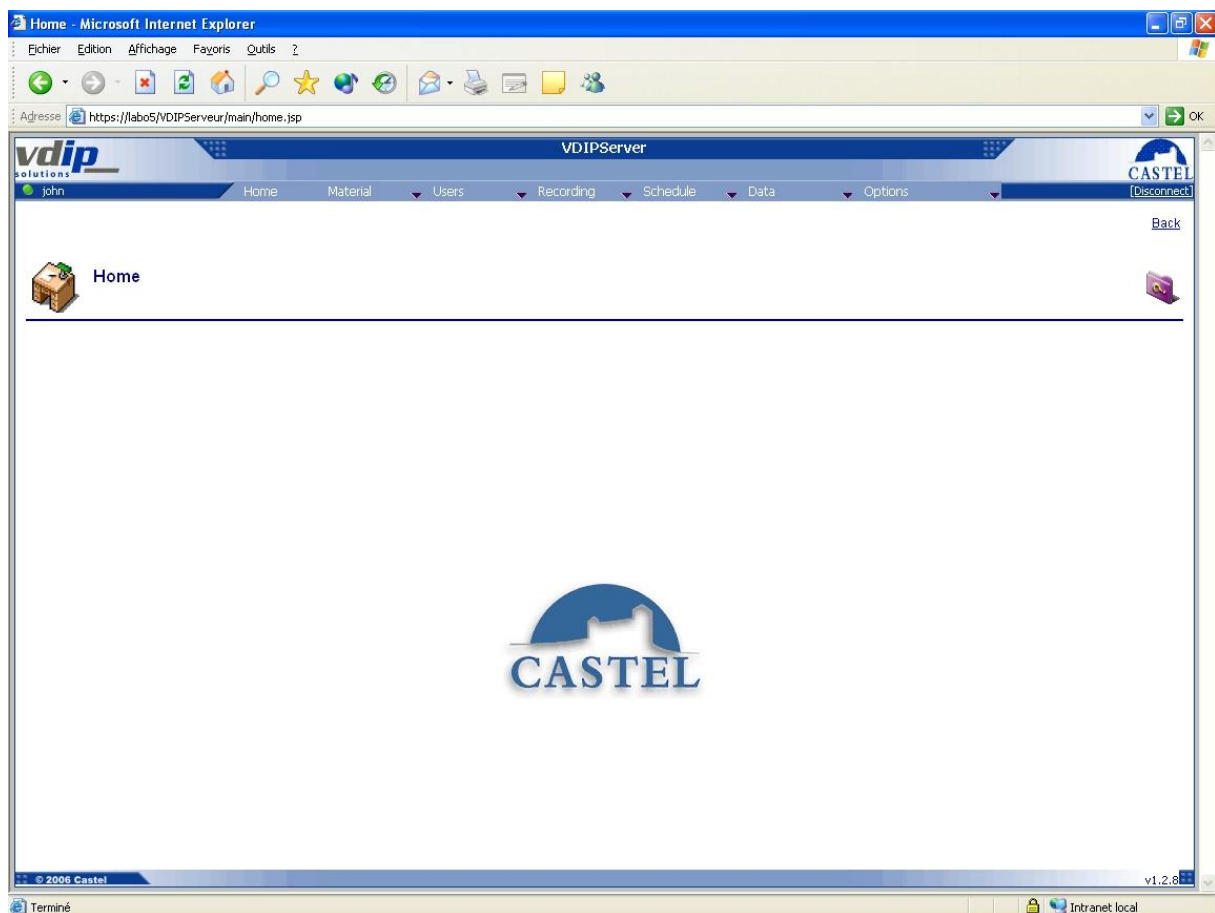


Home page

- ❑ This page is the home page of **CASTELServeur** application. It shows:

- One horizontal menu bar providing access to all CASTELAcces features,
- One head bar
 - Displaying the feature title,
 - Providing a quick link to previous page,
 - Providing a button to print the current screen
 - Providing a button to access the help page of the current feature

➤ This page is reachable from the following menu [Home/Home](#)



USERS MANAGEMENT

All VDIP software applications (**CASTELServeur**, CASTELAcces and CASTELSuperviseur) allow a user to use a collection of features available from a menu or by a simple mouse click on a specific link displayed on the web page.

CASTELServeur allows the user to configure an access rights restriction strategy depending on a profile associated to a user.

If a user's profile doesn't allow a specific feature, this feature will not appear in the menu and no links for this feature will be displayed.

This feature restriction can be performed with 4 concepts:

- Features
- Features group
- User profile
- User

The user management feature in **CASTELServeur** is provided for all other "satellite" softwares as CASTELAcces and CASTELSuperviseur. All CASTELAcces or CASTELSuperviseur users must be first declared in **CASTELServeur** for being authorized.

Features

- This page allows a user to **visualize** all features available. These features depend on the number of VDIP software installed and on the licence purchased.

Explanation: **CASTELServeur** allows the user to use elements like users, user profiles, feature groups, scheduling tasks, material events, etc...

- On each elements, a user can perform several actions like:
 - Display the list of these elements
 - Visualise an element
 - Modify the element
 - Remove the element

Definition: A feature is the association of an element and an action.

The features are divided in 3 families:

1. **CASTELServeur** features
Example: CASTELServeur: User - Remove
2. CASTELAcces features
Example: CASTELAcces: Personal cards - Create
3. CASTELSuperviseur features
Example: CASTELSuperviseur: Alarms - History

The screenshot shows a web browser window titled "Features list - Microsoft Internet Explorer". The address bar displays the URL: https://labo5/VDIPServer/feature/feature_L.jsp. The page header includes the "vdip solutions" logo, the text "VDIPServer", and a navigation menu with links: Home, Material, Users, Recording, Schedule, Data, and Options. A user named "john" is logged in, and a "CASTEL [disconnect]" button is visible. The main content area is titled "Features list" and contains a table with the following features:





Feature Name ▲
VDIPServer : Identification
VDIPServer : Home
VDIPServer : Users list
VDIPServer : User - Creation
VDIPServer : User - Modification
VDIPServer : User - Visualization
VDIPServer : User - Remove
VDIPServer : User - Duplicate
VDIPServer : User profiles list
VDIPServer : User Profile - Creation
VDIPServer : User Profile - Modification
VDIPServer : User profile
VDIPServer : User Profile - Remove
VDIPServer : Features group list
VDIPServer : Features group - Create
VDIPServer : Features group - Modification
VDIPServer : Features group - Remove
VDIPServer : Features list
VDIPServer : Features group - Visualization
VDIPServer : Recording Items - List
VDIPServer : Recording Items - Create

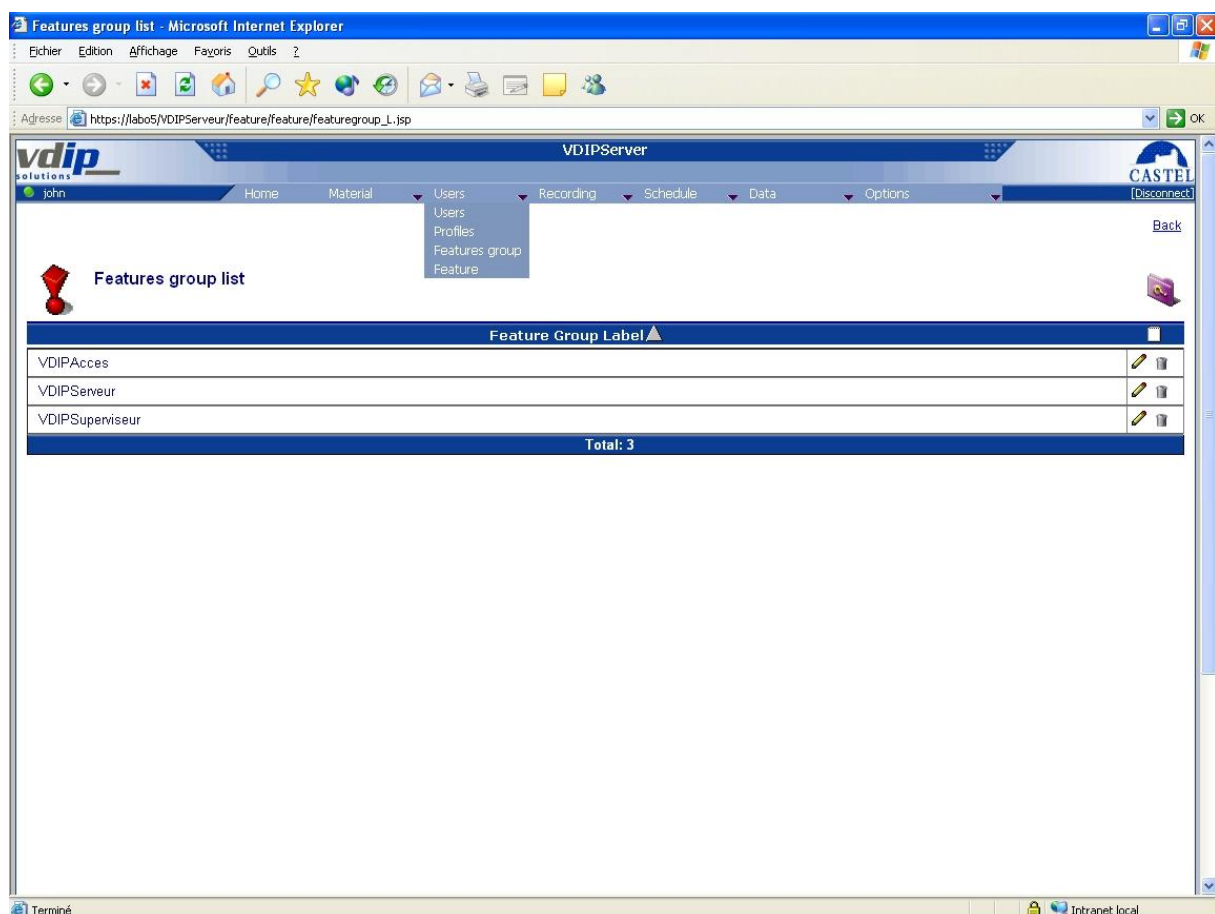
The status bar at the bottom shows "Terminé" and "Intranet: local".

Features group


Associate directly features to user profile will be too complicate as there are many features. **CASTELServer** allows a user to gather a list of features in an entity called "features group". These groups will be associated to profiles.

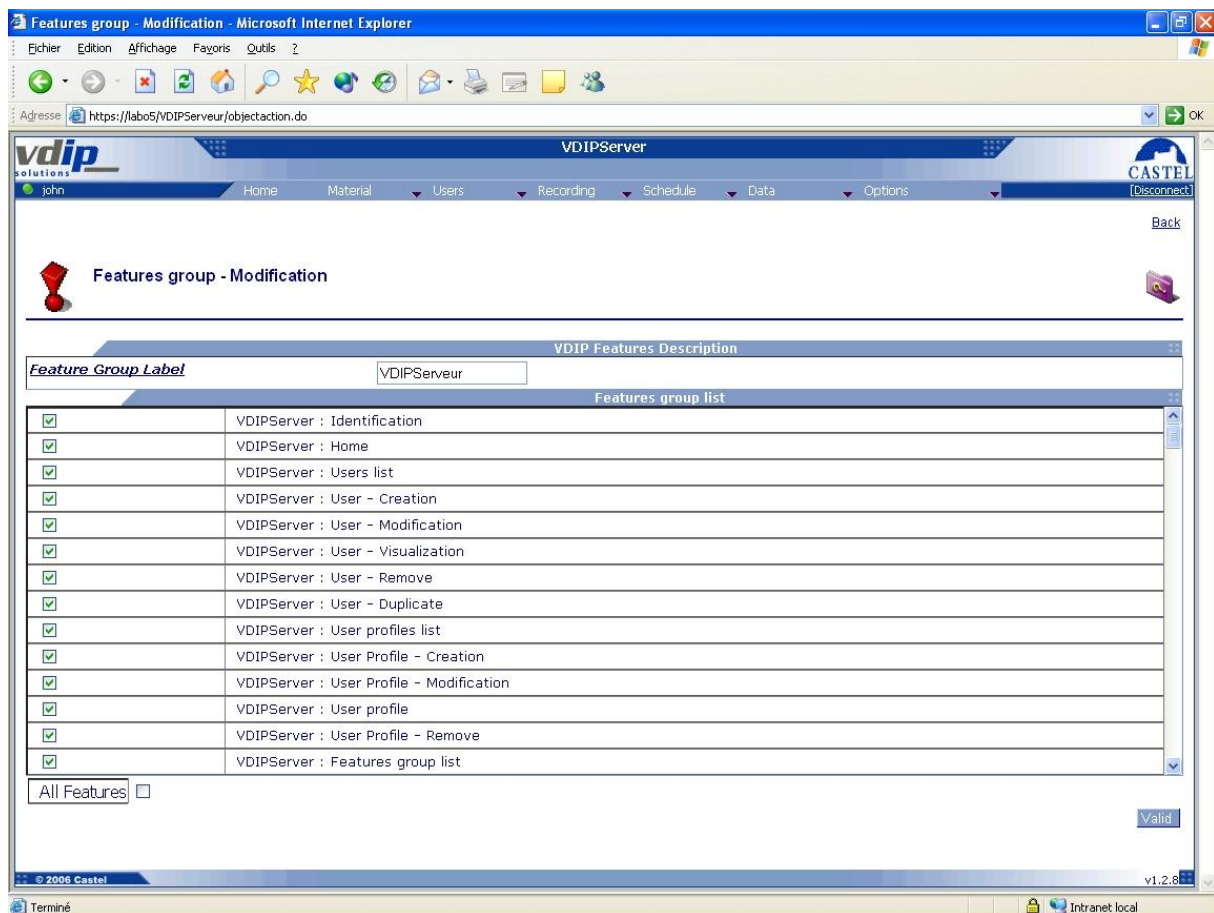
Feature group list

- ❑ This page shows the features group list with the following detail:
 - Feature group label.
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by clicking on the column header list.
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Users/Feature groups](#)
- The creation , view , modification  and remove  actions are reachable by associated links.



Features group – Modification

- ❑ This page shows a specific features group with the following detail:
 - The feature group name,
 - A checkbox associated to a list of feature. If checked, the feature is included in the group.
 - A particular checkbox called “All Features” that allows the selection of all features in one click.
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is available by clicking on  button displayed on the [Features group list page](#).



Features group - Modification

VDIPServer

Feature Group Label: VDIPServer

	Features group list
<input checked="" type="checkbox"/>	VDIPServer : Identification
<input checked="" type="checkbox"/>	VDIPServer : Home
<input checked="" type="checkbox"/>	VDIPServer : Users list
<input checked="" type="checkbox"/>	VDIPServer : User - Creation
<input checked="" type="checkbox"/>	VDIPServer : User - Modification
<input checked="" type="checkbox"/>	VDIPServer : User - Visualization
<input checked="" type="checkbox"/>	VDIPServer : User - Remove
<input checked="" type="checkbox"/>	VDIPServer : User - Duplicate
<input checked="" type="checkbox"/>	VDIPServer : User profiles list
<input checked="" type="checkbox"/>	VDIPServer : User Profile - Creation
<input checked="" type="checkbox"/>	VDIPServer : User Profile - Modification
<input checked="" type="checkbox"/>	VDIPServer : User profile
<input checked="" type="checkbox"/>	VDIPServer : User Profile - Remove
<input checked="" type="checkbox"/>	VDIPServer : Features group list

All Features ☐





Valid

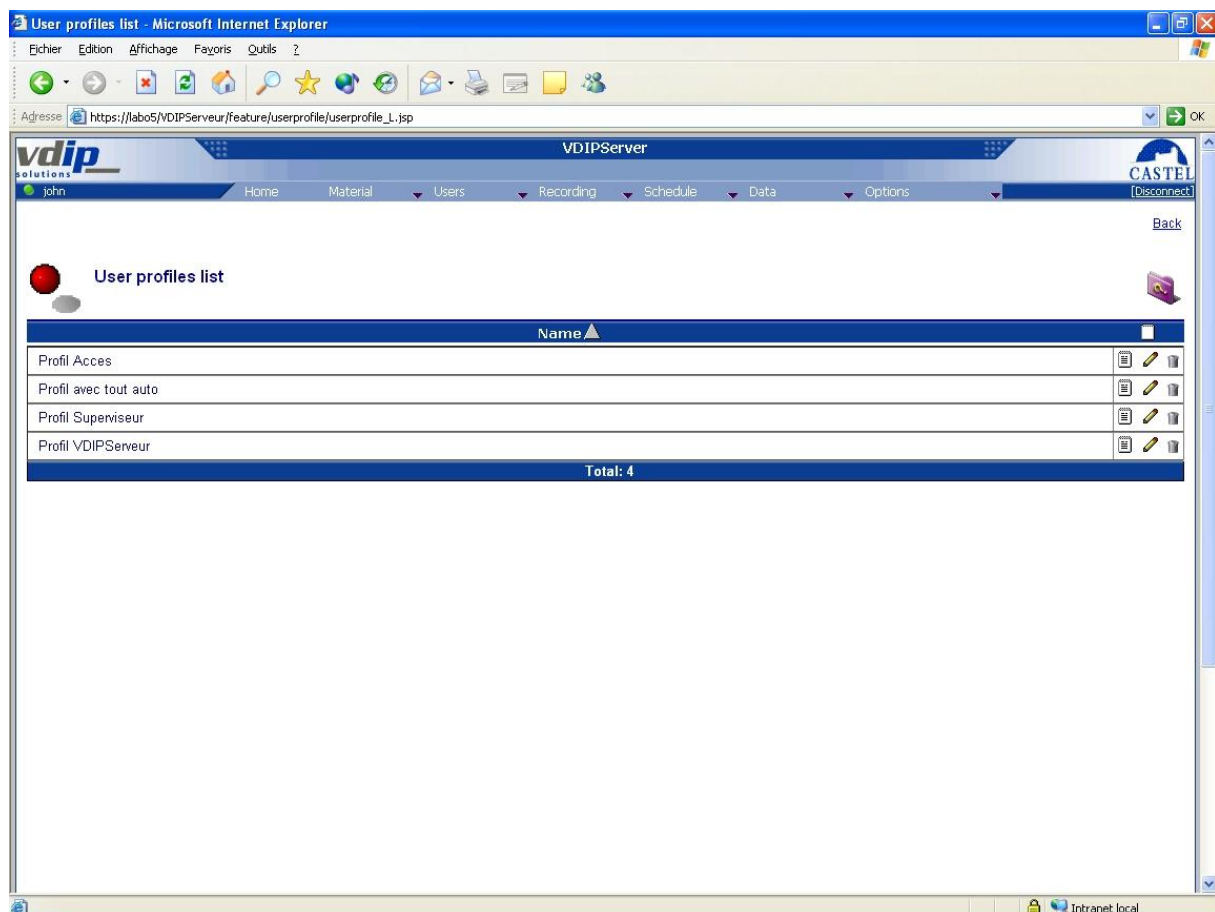
© 2006 Castel v1.2.8

User profile


A user profile allows the user to gather in one unique entity several software-using configuration parameters like features groups or optionally (for a CASTELSuperviseur user) categories and management units allowed.

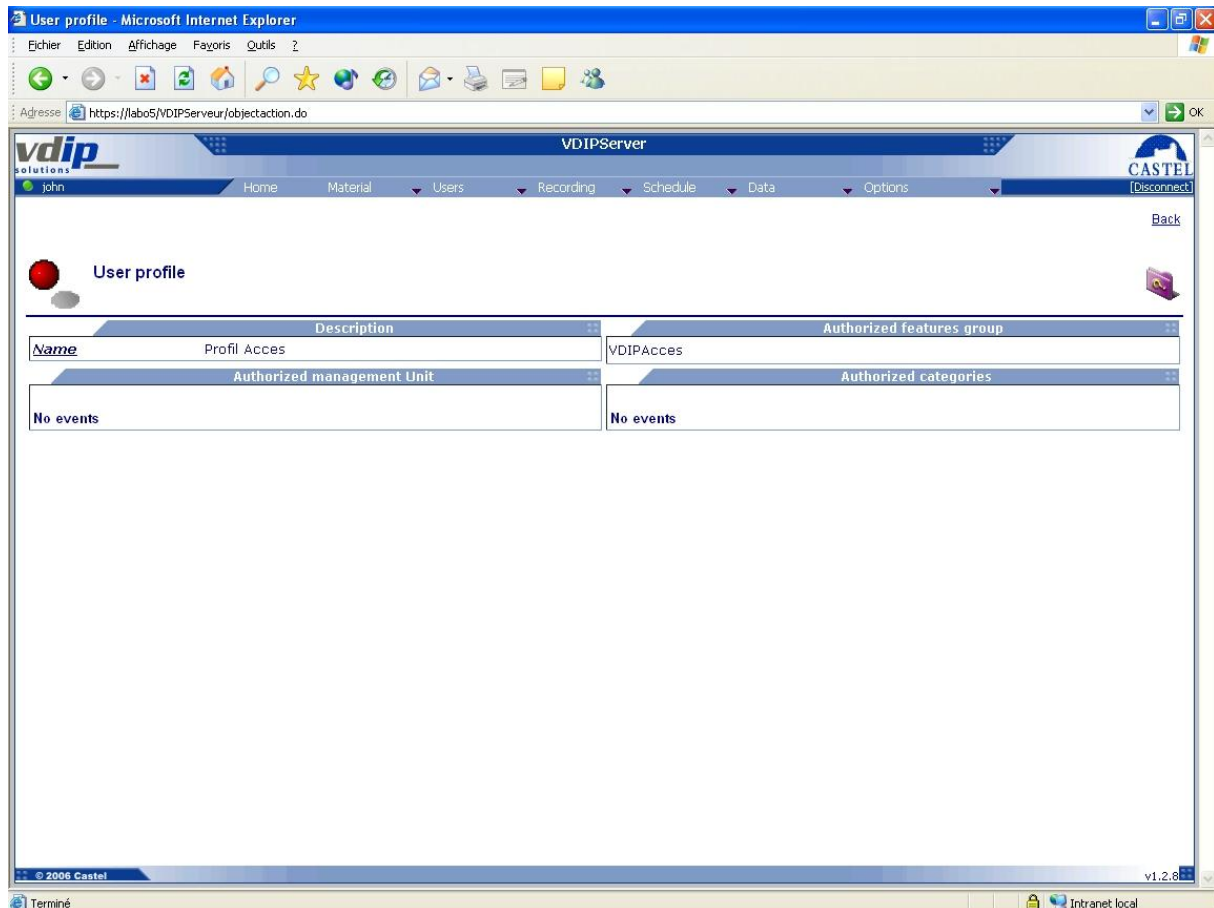
User profile list

- ❑ This page shows the user profile list with the following detail:
 - User profile name.
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by clicking on the column header list.
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Users/Profiles](#)
- The creation , view , modification  and remove  actions are reachable by associated links.




User profile – View

- This page allows the user to view an existing user profile with the following detail:
 - User profile name
 - Authorized features groups
 - Authorized categories (see CASTELSuperviseur User Manual)
 - Authorized management unit (see CASTELSuperviseur User Manual)
- This page is available by clicking on  button displayed on the [User profiles list](#) page.



User profile – Modification

- ❑ This page allows the user to modify an existing user profile. The following parameters are available:
 - User profile name
 - Authorized features groups
 - Authorized categories (see CASTELSuperviseur User Manual)
 - Authorized management unit (see CASTELSuperviseur User Manual)
- This page is available by clicking on  button displayed on the [User profiles list](#) page.
- After entry validation, the application displays the [User profiles list](#) page.

User Profile - Modification





Description		Authorized features group	
Name	Profil Acces	VDIPAcces	<input checked="" type="checkbox"/>
		VDIPServeur	<input type="checkbox"/>
		VDIPSuperviseur	<input type="checkbox"/>

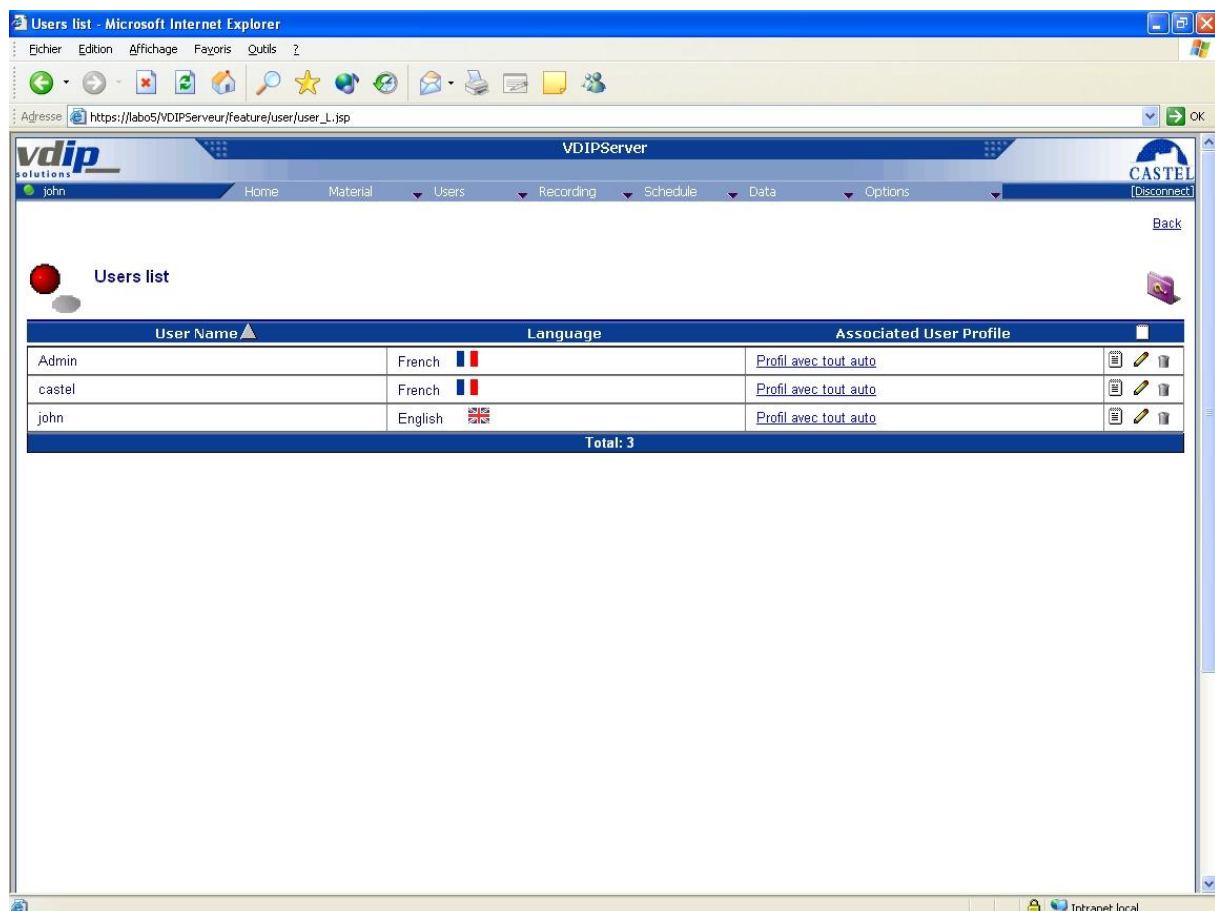
Authorized management Unit		Authorized categories	
U2	<input type="checkbox"/>	C2	<input type="checkbox"/>
U1	<input type="checkbox"/>	presence detectors	<input type="checkbox"/>
U3	<input type="checkbox"/>	C5	<input type="checkbox"/>
		C3	<input type="checkbox"/>
		lamps	<input type="checkbox"/>
		C1	<input type="checkbox"/>
		C4	<input type="checkbox"/>
		C6	<input type="checkbox"/>
		door-contact interruptor	<input type="checkbox"/>

Users


The user is the entity allowing someone to use all VDIP softwares. Once the user is identified by his login and password, only authorized features will be available. The menu and the web pages will be specific for each user.

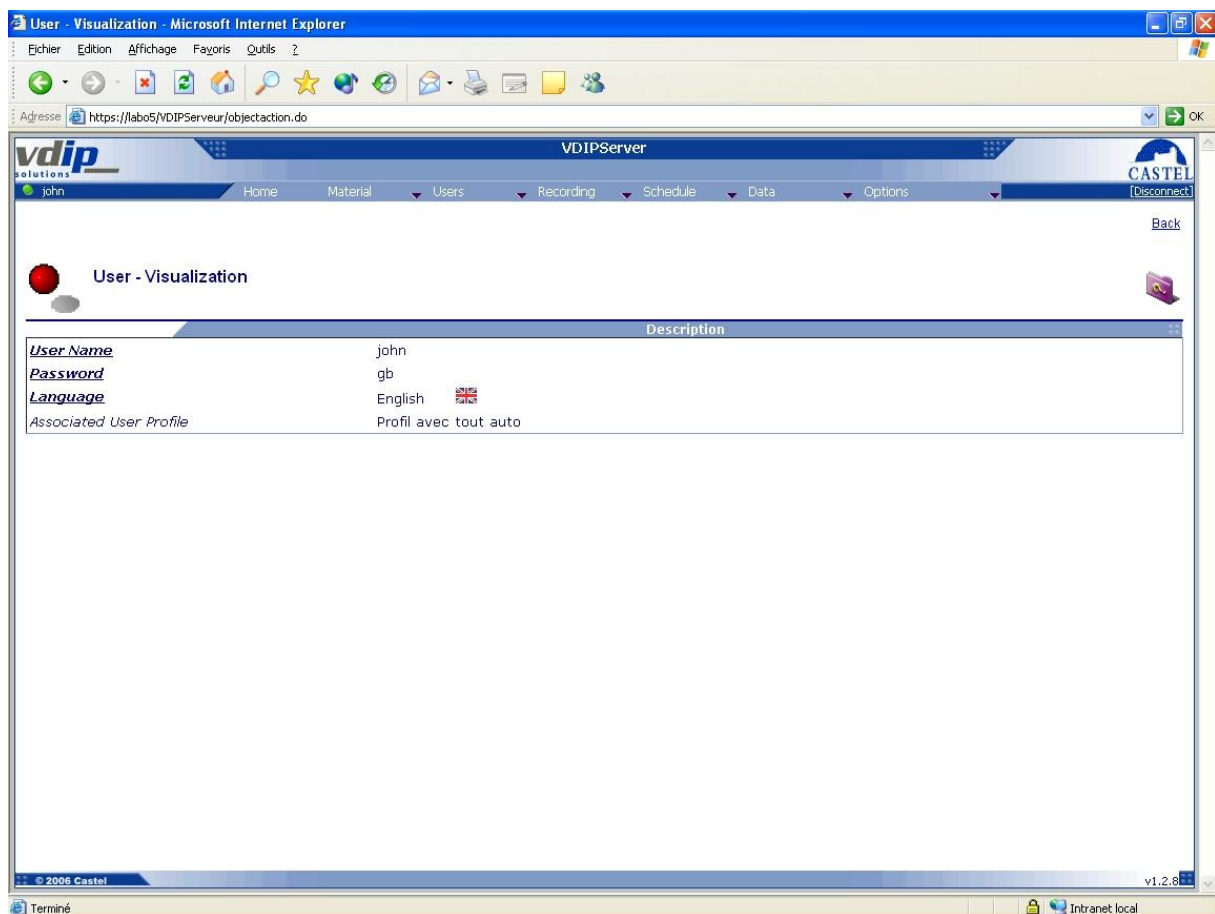
Users list

- This page shows the users list with the following detail:
 - User name.
 - Language
 - Associated user profile
- Each column can be sorted in Ascending ▲ or Descending ▼ order by clicking on the column header list.
- The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Users/Users](#)
- The creation , view , modification  and remove  actions are reachable by associated links.




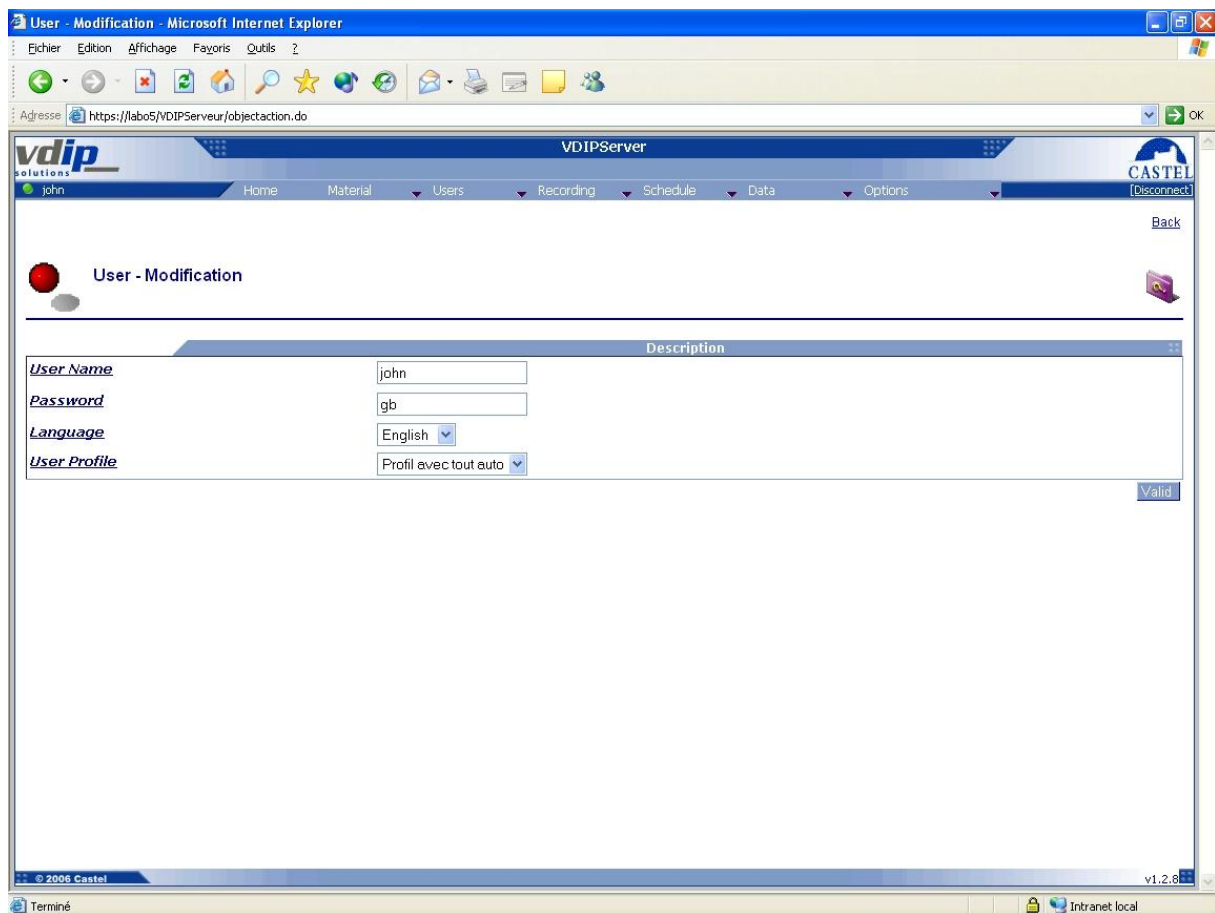
User – View

- This page allows the user to view an existing user with the following detail:
 - User name,
 - Password,
 - Language,
 - Associated user profile
- This page is available by clicking on  button displayed on the [User list](#) page.



User – Modification

- This page allows the user to modify an existing user. The following parameters are available:
 - User name,
 - Password,
 - Language,
 - Associated user profile
- This page is available by clicking on  button displayed on the [User list](#) page.
- After entry validation, the application displays the [User list](#) page.



User - Modification - Microsoft Internet Explorer

https://labo5/VDIPServer/objectaction.do

VDIPServer

john Home Material Users Recording Schedule Data Options [Disconnect]

Back

User - Modification

Description

User Name	john
Password	gb
Language	English
User Profile	Profil avec tout auto

Valid

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Terminé Intranet local

MATERIAL MANAGEMENT

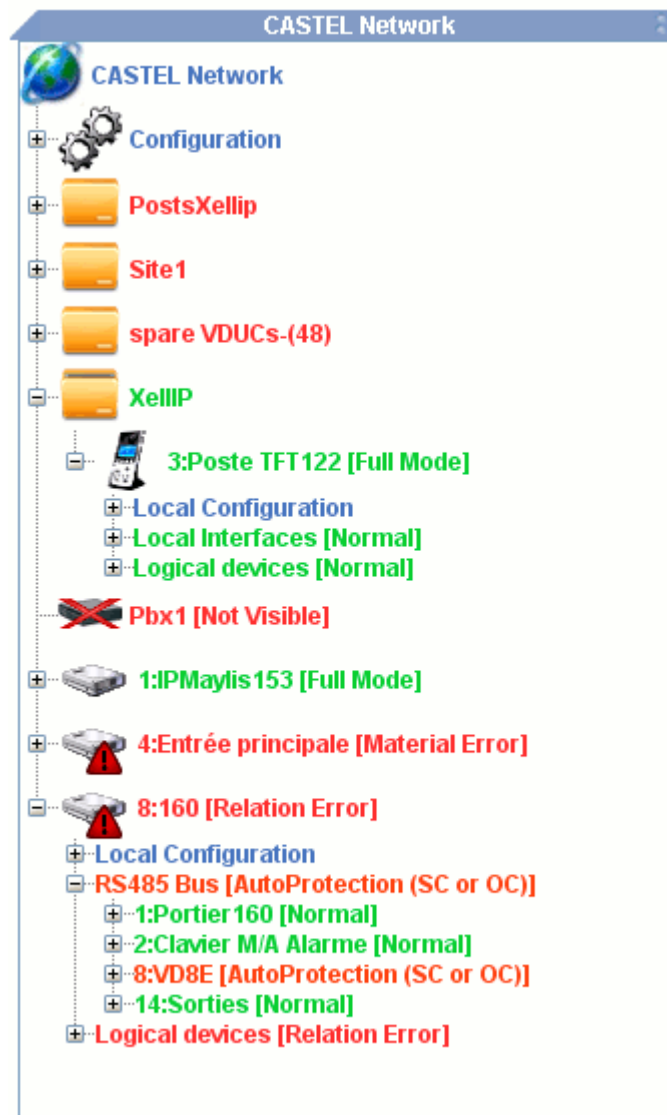
Material Configuration

- ❑ This page is used to visualize and manage the equipments included in the VDIP system. This includes:
 - Visualise and modify (depending on the user's rights) the configuration of each element,
 - Visualise the current state of the material: current state and/or error state.
- ❑ The screen is divided into two distinct vertical parts:
 - On the left-hand side, a tree structure regroups the different aspects of the material configuration. This includes **the functionalities shared by all the material** (functions, SIP configuration, etc.) as well as **the material itself** including the XELLIP workstations, XELLIP servers, VDUCs, peripheral devices and interfaces.
 - On the right-hand side is presented the information of the element selected in the tree.
- This page is accessible from the menu Material/Visualisation on the menu bar of the application.

Material Tree

- ❑ The material tree presents the configuration elements related to the material, including the parameters shared by all the materials or the material elements themselves (potentially regrouped in domains).
- ❑ The shared configuration elements are:
 - The functions (See paragraph "[COMPORTEMENT](#)" and paragraph "[Functions](#)").
 - The SIP parameters (see paragraph "[SIP Configuration](#)").
 - The parameters shared by all the XELLIP workstations:
 - The phone users,
 - The directory,
 - The simple Local Access.
 - The configuration of the XELLIP servers.
- ❑ For each material element currently configured in the VDIP network, including the VDUCs, peripheral devices and interfaces, the following information is provided :
 - The "local id" of the element (followed by ":"),
 - The label of the element,
 - The current state of the element (between "[]").
- ❑ A specific colour indicates the error state of the element:
 - **Green** if in good working order,

- **Red** in case of error,
- **Gray** for the peripheral devices connected to the RS485 Bus but not declared yet.



- The different possible states depend on the type of the element. To ensure that the errors are visible even when a branch is not expanded, the errors are propagated to the elements' parents. So a VDUC or XELLIP workstation will appear in error if any of its elements is in error, and a peripheral device will appear in error if any of its interfaces is in error.
- The possible states depend on the type of the element. The different states are the followings:
 - For the SIP configuration:
 - **SIP Problem** when SIP registration on a server fails.
 - For the readers:
 - **Blocked** or **Unblocked**,
 - For the inputs:
 - **Active** or **Inactive** for the state inputs,

- **Short-cut** or **Open Circuit** for the impedant inputs,
- The value of the counter for the inputs configured as counter,
- **Disabled** or **Forced Disabled** depending on the actions performed.
- Alarms **Forced Door** or **“Door Opened for Too long”** depending on the configuration of the access points in CASTELAcces.
- **(Excluded)** if the interface was excluded from CASTELSuperviseur. (Excluded interfaces are not considered in the relations and always appear “green” whatever their real state).
- For the outputs:
 - **Activated** or **Deactivated**,
 - **Forced Active** or **Forced Inactive**,
- For the audio interfaces:
 - **No Communication** or **In Communication**,
- For the video interfaces:
 - **No Communication** or **In Communication**,
- For the phone interfaces:
 - **Idle** or **In communication**,
- For the software interfaces:
 - **Active** or **Inactive** for the state inputs,
 - The value of the counter for the inputs configured as counter,
 - **Disabled** depending on the actions performed.
- For the serial interface:
 - **Ready**, **Calling** or **Material Error** if the configured equipment is not connected,
- For the peripheral devices:
 - **Normal** or **Not Visible** (if **Not Visible**, the state of the device interfaces becomes “?”),
 - **Material Error** in case of error on one of the interfaces,
- For the VDUCs:
 - **Normal**, **AutoProtection**, **Material Error**, **Inter VDUC Connection** or **Not Connected**,
 - **Material Error** in case of error on one of the peripheral devices,
- For all the elements:
 - **Relation Error** if the relation in error uses this element in one of its actions.


- The states of the elements are automatically refreshed in the tree.

VDIP Network

- This page is used to manage the VDIP Network. The following functionalities are provided:
 - Visualise the equipments in error (if error there is),
 - Add an equipment to the network,
 - Send their configurations to all the equipments,

- Send the time configuration to all the equipments (if manual configuration, the time of the server will be used),

Management
Behaviour



Vdip Network Management

Error States

Equipment	Error State
152	Not Visible
120-250	Not Visible
Nouveau	Not Visible
48.154	Material Error
160	Relation Error

Configuration

Add a


Network Configuration Management

Transfer Configurations from PC to Hardware

Time management

Time configuration

Set time in all equipments

- This page is accessible by cliquing on the element  Réseau Vdip in the "[Material Tree](#)".

Add a domain

- This page is used to add a new Domain to the VDIP network. The domain can be used to organise the VDUC in the VDIP Network tree.
- This page is accessible by selecting "Domain" in the Configuration section of the page [VDIP Network](#) and clicking on the button .

Domain Configuration

Configuration

Label:

Domain:


Vdip Network ▼

OKCancel

Only the label and the parent domain can be configured. These parameters can also be modified later the rename or move the domain.

Domain Management

ManagementBehaviourCommands



Domain "PostsXellip"

Domaine State

State Material Error

Actions on the Equipments in the domain

Download configuration to the EquipmentsDownload

Set time in all equipmentsSet Time and Date

Actions on the domain


ConfigureConfigure

Domaine RemovalRemove

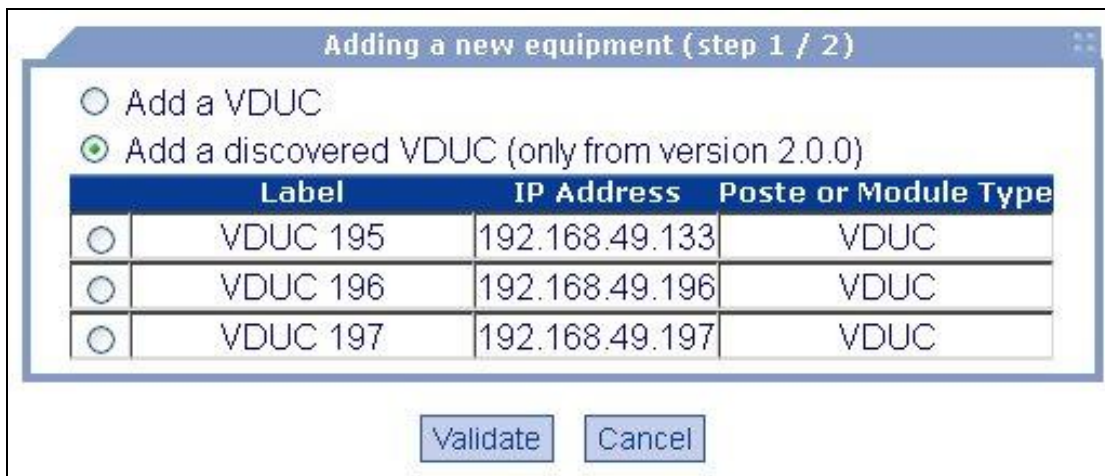
Each domain provides a few actions than can be performed on the equipments belonging to the domain (and sub-domains) or on the domain itself.

The domain also displays a global error state that proposes the worst problem encountered by equipment belonging to the domain or one of its sub-domains.

Add a VDUC

- ❑ Adding a VDUC takes two steps. The first step is to choose between entering the IP address of the new material and selecting it among the discovered ones. The second step consists in entering the required parameters.
- This page is accessed by selecting VDUC in the "Configuration" on page VDIP Network and clicking the button .

Step 1 :



Adding a new equipment (step 1 / 2)

☐ Add a VDUC

☒ Add a discovered VDUC (only from version 2.0.0)

	Label	IP Address	Poste or Module Type
<input type="radio"/>	VDUC 195	192.168.49.133	VDUC
<input type="radio"/>	VDUC 196	192.168.49.196	VDUC
<input type="radio"/>	VDUC 197	192.168.49.197	VDUC

This page can be used to:

- Add a new VDUC from scratch,
- Or select an item from the list of existing items discovered on the network (not yet reported in CASTELServeur).


Remarks :

- Items found can be sorted by column (by clicking on the column title),
- Clicking on a column header refreshes the list of items found.

Step 2 :

- ✓ The label as well as the IP address (or DNS name) is mandatory.
- ✓ You can then choose what should be the configuration of the new module among the following possibilities:
 - Empty configuration (by default),
 - Duplicate the configuration of an existing module (only available if there is at least on VDUC already configured),
 1. The VDUC to duplicate must then be chosen,
 2. A suffix can be added to the names of all the elements of the new VDUC to distinguish them from the original elements,
 - Keep the configuration currently on the module.
- ✓ The domain to which the VDUC is added can also be specified.

Add a « VDUC Evo »

- Adding a « VDUC Evo » takes two steps. The first step is to choose between entering the IP address of the new material or selecting it among the discovered ones. The second step consists in entering the required parameters.
- This page is accessed by selecting "VDUC Evo" in the "Configuration" on page VDIP Network and clicking the button  .

Step 1 :

Adding a new equipment (step 1 / 2)

☐ Add VDUC Evo
☒ Add discovered VDUC Evo

	Label	IP Address	Poste or Module Type
<input type="radio"/>	VDIPDATA 202	192.168.48.202	VDUC Evo
<input type="radio"/>	Nouveau	192.168.48.228	VDUC Evo
<input type="radio"/>	VDUCEvo1	192.168.48.229	VDUC Evo
<input type="radio"/>	VDUCEvo1	192.168.48.230	VDUC Evo
<input type="radio"/>	Poste VDUC Evo	192.168.49.122	VDUC Evo
<input type="radio"/>	Poste VDUC Evo	192.168.49.74	VDUC Evo
<input type="radio"/>	Poste VDUCEVO	192.168.49.80	VDUC Evo

This page can be used to:

- Add a new VDUC Evo from scratch,
- Or select an item from the list of existing items discovered on the network (not yet reported in CASTELServeur).

Remarks :

- Items found can be sorted by column (by clicking on the column title),
- Clicking on a column header refreshes the list of items found.

Step 2 :

Adding a "VDUC Evo"

Label :
 Hostname (or IP Address) :

Equipment's Configuration

☐ Set Default Configuration
☐ Duplicate the Configuration from another Equipment
 Select Source Equipment
 New Labels Suffix
☒ Keep the Equipment's current Configuration

Domain :

- ✓ The label and IP address (or DNS name) are mandatory.
- ✓ You must choose what should be the new configuration among the following choices:
 - Default configuration,
 - Duplicate the configuration of an existing VDUC Evo (available only if at least one VDUC Evo is already configured),
 1. You must choose the VDUC Evo to copy,
 2. A suffix can then be added to rename all the material elements of the new equipment and avoid duplication of labels.
 - Keep the current configuration of the VDUC Evo.
- ✓ The domain to which the VDUC Evo is added.

Add a XellIP workstation or door panel

- Adding a XellIP workstation is done in two steps. The first step is to choose the type of the equipment or to discover it on the network (if it is connected and started). The second step is to define the required parameters.

Step 1:

Adding a new equipment (step 1 / 2)

☐ Add new equipment of type XECLAV-P

☒ Add a discovered equipment

	Label	IP Address	Poste or Module Type
<input type="radio"/>	XEDES-SCREENV-W	192.168.48.123	XEDES-SCREENV-W
<input type="radio"/>	Poste test YP	192.168.48.128	XEDES-SCREENV-P
<input type="radio"/>	Poste test YP 2	192.168.48.129	XEDES-SCREENV-P
<input type="radio"/>	GIP143	192.168.48.143	XEDES-SCREENV
<input type="radio"/>	GIP	192.168.48.236	XEMED-P
<input type="radio"/>	GIP	192.168.48.238	XEDES-SCREENV-P
<input type="radio"/>	GIP	192.168.49.183	XESEL-V3B-P
<input type="radio"/>	GIP	192.168.49.190	XEMED-P
<input type="radio"/>	Entrée Castel	192.168.49.224	XESEL-V3B
<input type="radio"/>	Poste BUREAU LAURENT G	192.168.49.233	XEDES-SCREENV-P
<input type="radio"/>	SAV GERARD	192.168.49.252	XEDES-SCREENV-P
<input type="radio"/>	Poste XEMED-P 194 test nom long	192.168.49.80	XEMED-P

This first page can be used to:

- Choose the type of equipment in the given list,
- Select equipment among the material discovered on the network (and not yet declared in CASTELServer).

Remarks:

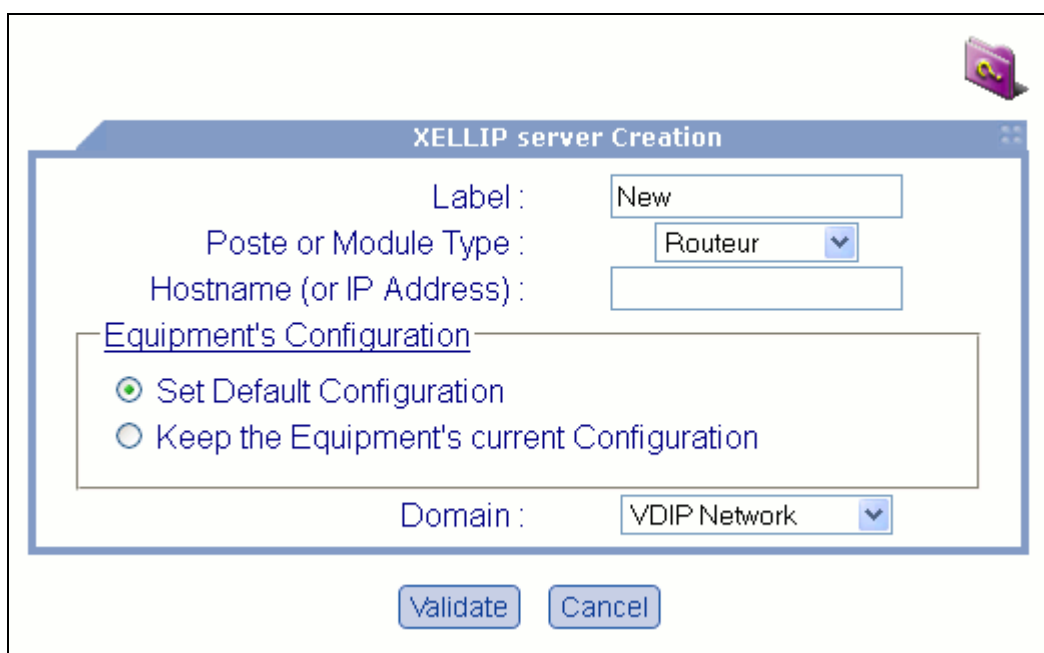
- The found equipments are can be ordered by each column (click on the title of each column),
- Clicking on a title triggers a refresh of the table.
- This page is accessible by selecting « XELLIP workstation or door panel » in the « configuration » in the page [VDIP Network](#) and clicking the "Add" button.

Step 2:

- ✓ Le label as well as the hostname (or DNS name) are mandatory.
- ✓ The type of configuration must then be selected between the following possibilities :
 - Empty configuration (by default),
 - Duplicate the configuration of an existing equipment (only available if there is at least one equipment of the same type already configured),
 1. The equipment to duplicate must then be chosen,
 2. A suffix can be added to the names of all the elements of the new equipment to distinguish them from the original elements,
 - Keep the current configuration.
- ✓ The domain to which the equipment is added can also be specified.

Adding a XELLIP server

- This page is used to add a XELLIP server.
- ✓ It is accessible by selecting « XELLIP server » in the configuration section of the page « [VDIP Network](#) » page and by clicking the « Add » button.



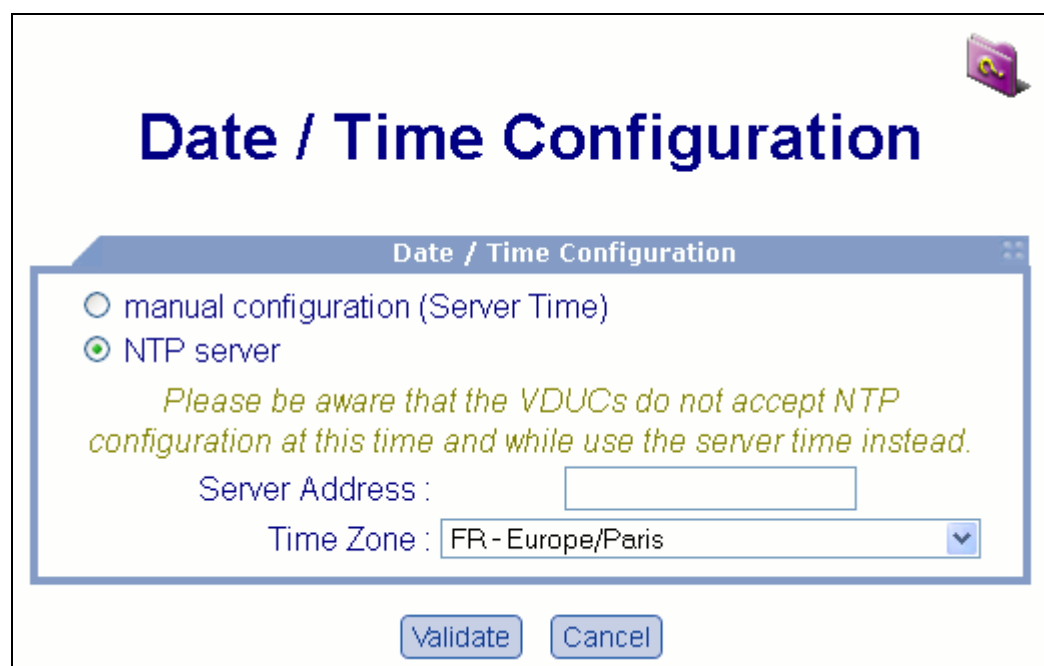
The screenshot shows a window titled "XELLIP server Creation". It contains the following fields and options:

- Label: A text box containing "New".
- Poste or Module Type: A dropdown menu showing "Routeur".
- Hostname (or IP Address): An empty text box.
- Equipment's Configuration: A section with two radio buttons:
 - ☒ Set Default Configuration
 - ☐ Keep the Equipment's current Configuration
- Domain: A dropdown menu showing "VDIP Network".
- Buttons: "Validate" and "Cancel".

- ✓ Two options are available regarding the configuration :
 - New configuration (by default),
 - Keep the Equipment's current configuration. (**Remark:** this option will only be available when adding the first server)
- ✓ The domain to which the new server is added.

Time configuration

This page is used to define the method of configuration for the equipments managed by the server. It looks as follows:



The screenshot shows a window titled "Date / Time Configuration". It contains the following fields and options:

- radio buttons:
 - ☐ manual configuration (Server Time)
 - ☒ NTP server
- A warning message in green italic text: *Please be aware that the VDUCs do not accept NTP configuration at this time and while use the server time instead.*
- Server Address: An empty text box.
- Time Zone: A dropdown menu showing "FR - Europe/Paris".
- Buttons: "Validate" and "Cancel".

It is then possible to decide between “manual configuration” and using an NTP server. If using “manual configuration”, it is recommended to set up a schedule task to update the time of the equipments every day. (See the paragraph “[Scheduling management](#)”).

CONFIGURATION

The « Configuration » branch in the material tree is used to configure the parameters shared among the equipments.

The Functions

The functions management can be used to define command functions related to the technical management of premises equipped with the **VDIP** system. As an example, they could command the heating of the office, the heating of the workshop, the external lights, etc...

In these functions identified by a label, it is possible to define multiple states corresponding to different work modes for these technical functions.

In the case of the heating, the possible modes would be "Full stop", "Working", "Prevent freezing"...





Each of these states includes different elementary actions on material interfaces of the VDIP system. (Only the reader, input and output interfaces can be used in the definition of the different states).

To continue the example of the heating, the different possible states could be:

- Full Stop: deactivate outputs S1, S2 and S3,
- Working: activate outputs S1, S2 and S3.
- Prevent Freezing: activate S1 and deactivate S2 and S3.

These functions will then be available when defining relations, or when scheduling technical functions.

Functions Visualisation

- ❑ Clicking on the «functions» node in the material tree will show the complete list of the system functions.
- ❑ For each function is displayed the label as well as the labels of the different states configured. It is also possible for each function to view it in details (Icon ) , to modify it (Icon ) , to delete it after confirmation (Icon ) or to duplicate it (Icon ) with the possibility of replacing each interface by others.
- ❑ The functions using a specific interface can be viewed by clicking the tabulation « Behaviour » when the desired interface is selected in the material tree. The functions using this interface will then be displayed below the relations.
- ❑ It is also possible to add a function by clicking one of the « Add » buttons presented on the page.

- To access this page, you have to select the « functions » element in the material tree, and then click on the « Behaviour » tabulation.

Functions visualisation

Add

Label	Defined States	
Gestion alarme	Active / Inactive	
Function interface logicielles	Actif / Inactif	
démo	Actif / Inactif	
Test Forçage inhibition	Debut forçage inhibition / Fin forçage inhibition	
tests profils	p133 / p2 / p4	
TestNoProfils	State1 / State2	

Add

Function detailed view

Function "Function interface logicielles"

Defined States

Actif

Action	Element	Parameters
change state	OTL Salle Info ECNR (M8-P31-I1)	• Input state : Active
change state	OTL Sas Salle Info ECNR (M8-P31-I2)	• Input state : Active

Inactif

Action	Element	Parameters
change state	OTL Salle Info ECNR (M8-P31-I1)	• Input state : Inactive
change state	OTL Sas Salle Info ECNR (M8-P31-I2)	• Input state : Inactive

Remove Modify Back to List

- ❑ The detailed visualisation of a function displays the different states of the functions with the different actions performed in each of these states.
- ❑ From this page, it is possible to modify or remove a function.

Adding/Modifying a Function

- ❑ Adding a new function implies the definition of a label and the definition of the different states of the function.



Adding a Function

Label

Defined States

Adding/Modifying a state

- ❑ Adding a state consists in entering the label of the state and defining the different actions to perform in this state.
- ❑ If some states have already been defined in this function, then it is possible to duplicate the actions from another state by inverting them (« Activate S1 » becomes "deactivate S1", "Disable E1" becomes "Stop disabling E1", etc...).
- ❑ For the definition of the actions on the interfaces, report to paragraph « [Actions Definition](#) ».

Adding state

Label

Actions List

Action	Element	Parameters
No action to display.		

Copy and reverse the actions from an existing state:

Function commands

- ❑ This page can be used to perform commands on the functions, which means executing the actions configured for a specific state of specific function.
- ❑ Each state of the function selected appears has a button that can be clicked to perform the corresponding actions.
- ❑ The delay and duration can be used to set timings on the execution of the actions.
Warning: these delay and tempo are added to the delay and tempo that may already have been configured in the actions of the state.

Function Commands

State

Function :

Delay (1/10 second)

Duration (1/10 second)

General SIP Configuration

This page proposes the configuration of SIP parameters that will by default apply to all the SIP devices managed by CASTELServer:

- XELLIP workstations and door panels,
- VDIP door panels.

- ❑ The XELLIP workstations and door panels are natively **SIP** and can therefore communicate with any SIP agent.

- ❑ Since **version 1.4.2**, the VDUCs embark a **SIP stack** use to make calls to SIP agents.

- ❑ It is then possible to configure workstations and door panels to communicate with any SIP system on the network (SIP phones, soft phones, etc.).

- ❑ The equipment can also register with SIP servers (XELLIP or others) to handle SIP communications and provide additional functionalities.

Configuration general to all workstations and door panels

- ❑ The following page accessible from the material tree « **Configuration → SIP → SIP Parameters** » is used to define the SIP configuration that will by default apply to every SIP agent managed by CASTELServer (VDUCs and/or XELLIP systems).

- ❑ The selection of the server provides the following options: (depending on the configuration) :
 - **No Server**: No SIP server is used: the workstations and door panels work in "standalone".
 - **XELLIP Server(s)**: This option is only available when XELLIP servers are declared in CASTELServer.
 - Otherwise it is possible to choose an external server (if at least one server was configured – see paragraph « [SIP servers configuration](#) »)

- ❑ The registration on a SIP server will allow the usage of **extensions** configured on the server to make calls more easily (call « [sip:345](#) » instead of « [sip:dupond@company.fr](#) »).

- ❑ The SIP parameters are :
 - The SIP port used by the XELLIP workstations or the VDUCs (5060 by default),
 - The registration period (if registered on a server).
 - The audio configuration :
 - **RTP port** used by the XELLIP agent or the VDUC (must be even),
 - The **audio codecs** used (XELLIP agents only: VDUCs always use codecs PCMU, PCMA, GSM).
 - The video configuration:
 - **RTP port** for the video stream (must be even),
 - The **video codecs** used (XELLIP agents only: VDUCs only support codec h263).

Default SIP parameters configuration

Server Selection

Parameters
Server :

SIP Parameters local to the workstations and door panels

Parameters	
SIP Port (5000-65535) :	5060
Registration Period :	3600

Audio Configuration	
Audio RTP Port (7000-65535) :	10800
<i>The codecs configuration only applies to XELLIP materials.</i>	
Audio Codecs :	PCMU, PCMA, GSM

Video Configuration	
Video RTP Port (7000-65535) :	10802
<i>The codecs configuration only applies to XELLIP materials.</i>	
Video Codecs :	H264, H263-1998, H263

DTMF Codecs	
<i>The DTMF configuration only applies to XELLIP materials.</i>	
RFC-2833 :	Yes
SIPINFO :	No

- ❑ The information provided by this page **applies by default to all the SIP agents** (VDIP or XELLIP) managed by CASTELServeur. But is possible to define **specific SIP configuration** on each XELLIP agent or VDUC.
- ❑ The embedded SIP stack follows **RFC SIP 3261**.
- ❑ The DTMF codes (used to open the door of the door panel for example) can be sent as **SIP Info** or following **RFC 2833** to be interpreted by the VDUC.

Codecs Description

Audio Codecs:

- **G711 (ALAW and ULAW)** UIT-T audio compression standard. This standard is the basis of transporting voice on a commuted or RNIS telephone network and is also used to transport voice with little compression
 - ALAW or PCMA is an algorithm used in Europe and Africa.
 - ULAW or PCMU is an algorithm used in North America and Japan
 - Bandwidth: 64 Kbit/sec or 56 Kbit/sec
 - Sampling: 8 KHz for a frequency band of 300-3,400 Hz
- **GSM**: standard used in mobile telephony which is inferior to G711 and G722
 - Bandwidth: 13.2 Kbits/sec
 - Sampling: 8 KHz

Video Codecs

- **H263**: is a recommendation related to the video coding standard developed by UIT-T. This codec was developed for transmission of video on very low speeds. Only 5 image formats (SQCIF, QCIF, CIF, 4CIF and 16CIF) and one image frequency (29, 97 Hz) have been standardized for this codec.
- **H263+ or H263-1998**: is an improvement of the codec H263. There is no more restriction concerning the size and the frequency of the image.
- **H264 or MPEG-4 AVC (Advanced Video Coding)**: video coding standard developed jointly by UIT-T, the Video Coding Experts Group (VCEG) and Moving Picture Experts Group (MPEG).
 - This codec uses several techniques which allow it to compress videos much more easily than previous norms (H.261, MPEG-1, MPEG-2, MPEG-4 Part2/ASP)
 - A software license cover the use of this codec but today this kind of license is not recognized in Europe.

SIP servers configuration

- The following page accessible from the material tree « **Configuration → SIP → Servers** » provides de configuration of the external SIP servers used by the SIP agents (XELLIP or VDUCs).

SIP Servers (not XELLIP)

Parameters

Label :

Address (ip:[port]) :

The use of 3 SIP servers only applies to XELLIP systems.

Server 2 Address (ip:[port]) :

Server 3 Address (ip:[port]) :

(The default port number is 5060. Acceptable addresses are for example 192.168.0.1 (using 5060) or 192.168.0.2:5070 (if the server is using port 5070))

- ❑ The configuration parameters are :
 - The label of the server.
 - **IP address of the server** (with an optional port number),
 - **IP address of server 2** (redundant optional server),
 - **IP address of server 3** (redundant optional server).

Remark:

- The redundant servers are only handled by XELLIP workstations and door panels, not by VDUCs.
- **! Warning:** there is no guaranty that the SIP servers will be used in the order in which they are configured. The order used depends on the speed of response of each server. Consequently, a XELLIP agent configured with only one server might not be able to contact another agent configured with 2 or 3 servers: it is therefore recommended to have the same configuration on all XELLIP agents.

General configuration for all XELLIP agents

Some configuration elements are configured globally and are shared by all the XELLIP workstations and door panels.

In addition to the SIP configuration shared by all the SIP agents managed by CASTELServer, the following elements are shared:

- ❑ The « **phone users** » are the users that can log on directly on the XELLIP workstations,
- ❑ **The directory** defines the sip numbers that can be called directly from the door panels with a directory displayed to the user,
- ❑ The « **Code/Local Access** » defines the simple access codes useable on the XELLIP door panel with access keypad.

The phone users

The phone users are the user that can log on directly on the XELLIP workstations using the keyboard and the screen. They are **not** WEB pages users.

The users list is used to display, modify or delete phone users.

The phone user configuration looks as follows:



The screenshot shows a window titled "Desktop phone user display configuration". Inside the window, there is a sub-window titled "Parameters". This sub-window contains three labels with corresponding input fields: "Login:" followed by a text box, "Password:" followed by a text box, and "Language:" followed by a dropdown menu showing "French". At the bottom of the "Parameters" sub-window, there are two buttons: "Validate" and "Cancel".

As indicated in the picture, the configurable elements are the login, the password and the language of the user.

Remark:

For a user to be able to log on a workstation, he must also have been associated to the workstation and given a profile. This profile will determine the functions accessible to the user on the workstation.

The directory

The directory page is used to configure the different calls that can be made from the XELLIP agents supporting this function (currently):

- The door panels with « Selectable names list » (« XESEL »),
- The door panels easily cleanable for the hospitals (« XEMED »),
- The desktop phones (types « XEDESK »).

All the sip agents managed by CASTELServer are automatically part of the directory entries proposed when configuring the directory of each XELLIP phone profile.

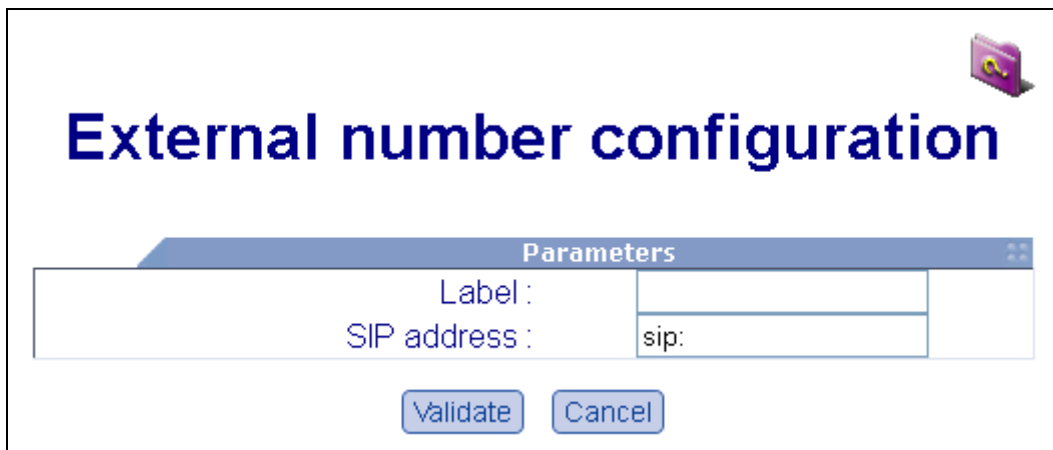
Additionally, if XELLIP servers are available and XELLIP extensions have been created, then all these extensions are also proposed when configuring the XELLIP phone profiles.

This page provides the possibility of adding additional directory entries proposed to the user:

- Calls to external SIP agents (not CASTEL) when configured in standalone or when using a SIP server not XELLIP.
- Multiple calls (up to then sip numbers simultaneously with configurable delays before calling an additional number).

External numbers

The external numbers are SIP agents not managed by CASTELServeur (neither XELLIP agents nor VDUCs nor XELLIP extensions).



Parameters	
Label :	
SIP address :	sip:

Validate Cancel

Only a label and an SIP address are required to add external numbers.

Multiples Calls

The multiple calls are special entries in the directory providing a way to make standard complex calls from the directory.

See paragraph "[Configure a call on XELLIP agents](#)" for the configuration of a call.

Code / Local Access

These codes are used with the XELLIP materials including a keyboard or a keypad and with this functionality enabled ("XESEL" types mainly). These codes are entered to identify a user and to perform specific actions using relations (for example).

Technically, the code entered by the user is compared with the existing codes considering the authorised hours configured if any. If the code is found, and during an authorised period of time, then an event "authorised code" is generated. If the code is unknown, or not authorised at this time, the "refused code" event is generated.





These events can then be used within the relations to open the door for example.

Codes List

The list presents the different codes configured with the number of XELLIP equipments using each code and indicating if specific schedules have been configured for each code. From this list, it is possible to display, modify and delete existing codes or to add new ones.

Then are displayed the schedules that will apply to all the codes.

The page also includes a link towards the importation page.

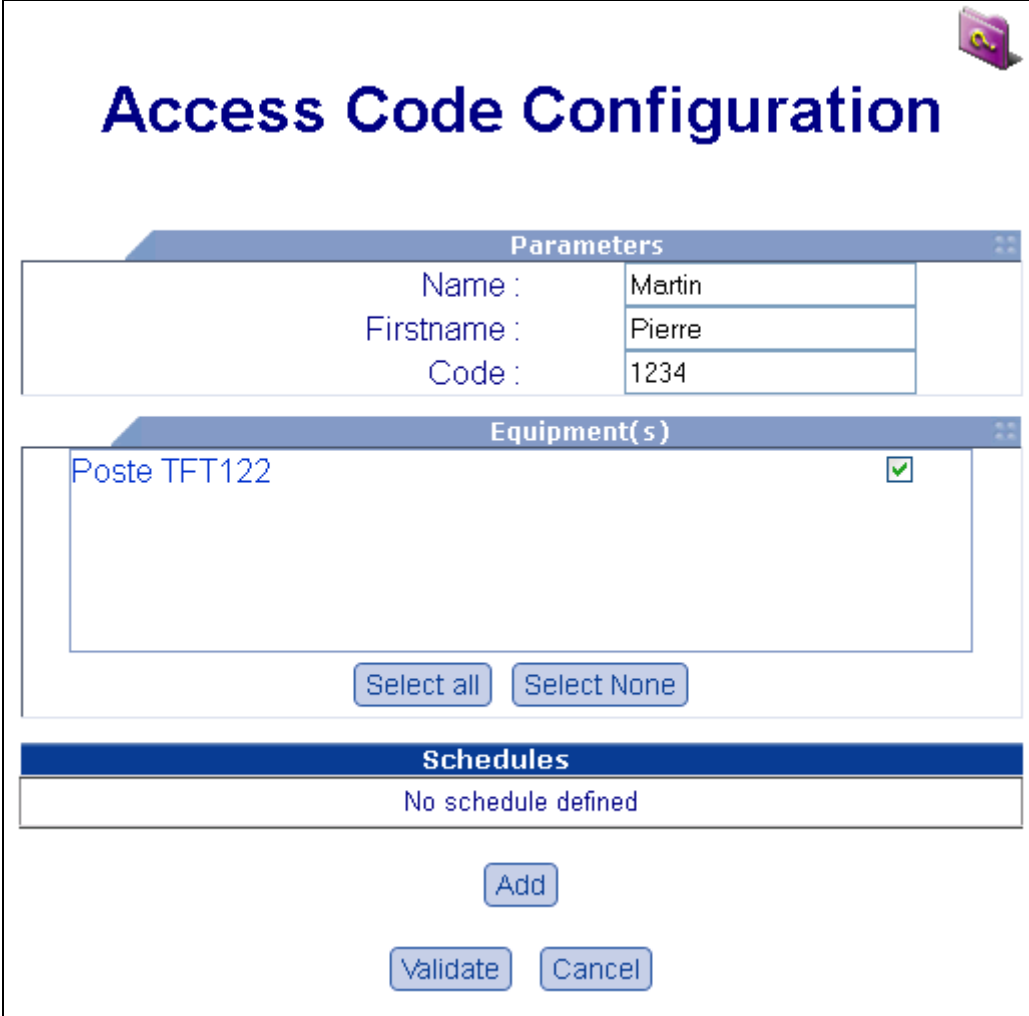
Access Codes List					
Name	Firstname	Code	Stations	Schedules	
Martin	Pierre	1234	1	No	 
Dupond	Michel	5678	1	No	 

Schedules
No schedule defined

Access codes can be imported (updated) using the page ["Data => Import / Export"](#).

Add/ modify a code

This page is used to create or modify a code.



The screenshot shows a web-based configuration window titled "Access Code Configuration". It features a folder icon in the top right corner. The window is divided into three main sections: "Parameters", "Equipment(s)", and "Schedules".

Parameters

Name :	Martin
Firstname :	Pierre
Code :	1234

Equipment(s)

Poste TFT122	<input checked="" type="checkbox"/>
--------------	-------------------------------------

Below the equipment list are two buttons: "Select all" and "Select None".

Schedules

No schedule defined

Below the schedules section is an "Add" button. At the bottom of the window are "Validate" and "Cancel" buttons.

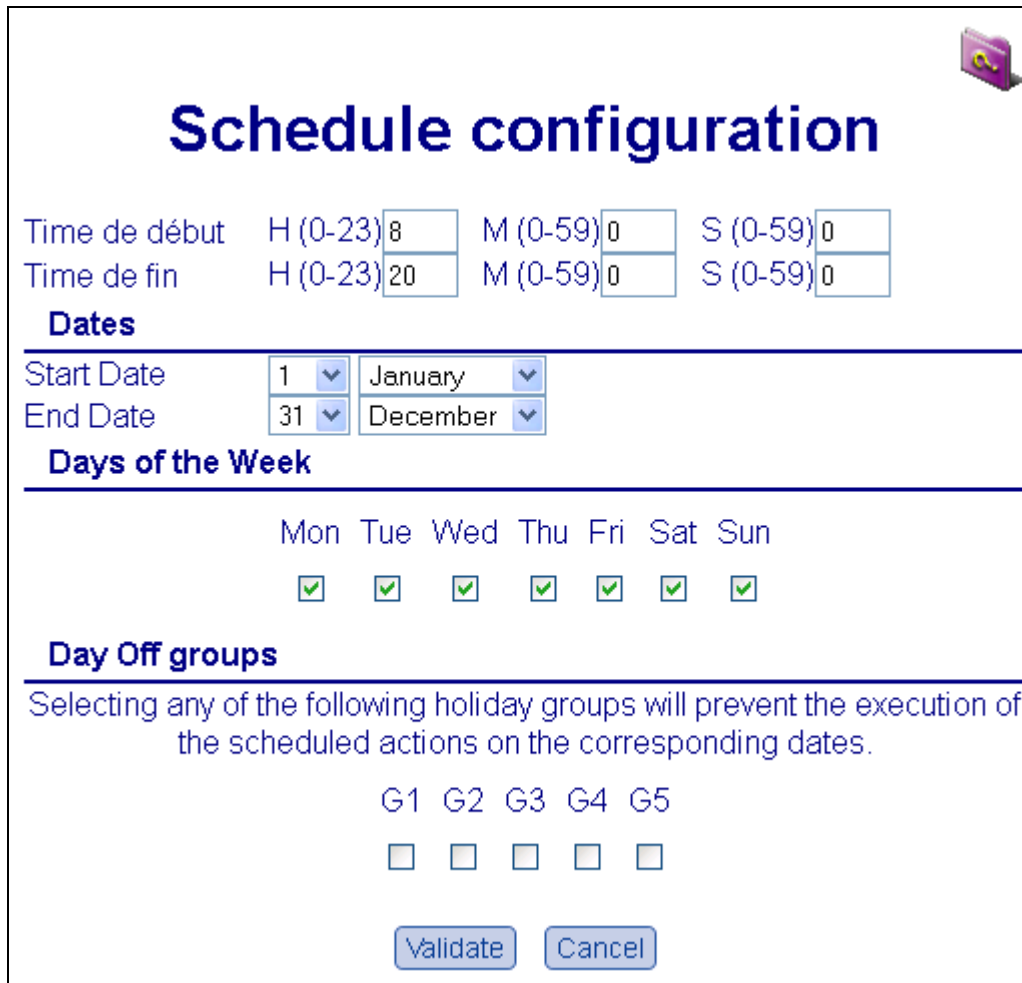
Each code definition requires the following elements:

- The user name,
- The user first name,
- The code itself,
- The XELLIP equipment supporting this code.

It is also possible to define schedules that will apply only to the current code. In this case, these specific schedules REPLACE the global schedules (if any).

Schedule configuration

This page presents the configuration of a schedule for the simple access codes. The page looks as follows:



Schedule configuration

Time de début H (0-23) M (0-59) S (0-59)
 Time de fin H (0-23) M (0-59) S (0-59)

Dates

Start Date
 End Date

Days of the Week

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Day Off groups

Selecting any of the following holiday groups will prevent the execution of the scheduled actions on the corresponding dates.

G1	G2	G3	G4	G5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

It is then possible to define a period of days and time during which the access code will be valid.

The "Day off Groups" can be configured in the page "[Legal holidays configuration](#)".

XELLIP servers

This page presents the **different configuration elements that are supported by the XELLIP servers**.

Remark:

If more than one XELLIP server is configured in the system, CASTELServer will manage these servers globally. This means that the configuration is created without specifically checking which server will hold this or this element of configuration.

It is the "dialplan" that will determine what part of the configuration will be managed by each server – mainly: what extensions will be managed by each server.

The general parameters

This page is used to define some general parameters that will apply to all XELLIP servers.

- ❑ **The numbers format:** define the extensions size used by all servers (and by all the SIP agents using these servers).
Remark: It is **essential** to choose the good format before configuring anything, since it will not be possible to change it as long as configuration elements (extensions, call groups, etc.) will exist.
- ❑ **Priority calls prefix:** on 2 digits (the first different from 0). This prefix can be used to make a call from any sip agent (registered on the XELLIP servers) with a specific priority for this call. The number format is the following: <Priority call prefix><call priority><number called>.
 For example: "884100" will call the number 100 with the priority 4 (if the prefix is configured to 88).
- ❑ **Timeouts:** the call timeout and the communication timeout are the timeouts used by the servers.
Remark: These timeouts also exist in the XELLIP agents and VDUCs. It is therefore the smallest value (between the sip agent and the server) that will be used.
- ❑ **SIP Codecs:** they are the default codecs that will be used by all the extensions.
Remark: The codecs can also be defined specifically in the configuration of each extension.
- ❑ **Voicemail Prefix:** prefix used to call the voicemail account of an extension by adding the extension number after the prefix.
Example: « 99100 » calls the voicemail of extension 100 (if the prefix is 99). The server answers the call and asks for the password (or PIN number).
Remark: The voicemail is only available on the server max.
- ❑ **Functions messages language:** defines the language used for the advanced functions (such as voicemail).
Remark: The voicemail is only available on the server max.
- ❑ **Recording parameters:** Here are configured different parameters related to the recording of conversations.
 - **Maximum disk space for the recordings:** This parameter gives the maximum space that will be used to store the calls recorded. This value is in gigabytes. If this limit is reached, the older recordings are deleted.
 - **Number of days a recording is kept:** gives the number of days a recording should be kept. After this time, it is automatically deleted.
 - **Maximum number of recordings:** This parameter gives the maximum number of recordings to save on the server. If this limit is reached, the older recordings are deleted.
 - **Media provider application address:** Indicate here the address of the media provider if you do not want or cannot use the media provider embedded in the server max. Otherwise, leave it empty.

Remark: The recording of the calls is configured at the level of the extensions.

- **Configuration option:** Here are configured different options.
 - ***Send the extension labels rather than the equipment labels:***
By default, Castel material labels are sent to the Xellip servers and the SIP stations directories. This option lets you change this behavior to send the labels of the extensions instead.

DialPlan

The dialplan is used to divide the configured extensions (as well as the other type of calls: call groups, external extensions, etc.) between the different XELLIP servers managed by CASTELServeur.

This is only useful if more than one XELLIP servers are used. If only one server is used, it will manage all the extensions and other configuration.

Remark: it is the responsibility of the user to know the limitations of the equipments used. (For example: the maximum number of extensions supported by a router for example, etc.).

In case of modification of the dialplan, all the servers and XELLIP agents will be updated.

XELLIP Extensions

This page is used to define the SIP extensions managed by the XELLIP servers.

Extensions List

The list of the extensions shows all the configured extensions as well as the state of each one. It is then possible modify, delete or duplicate each extension.

Extension(s) Multi Suppression

This section provides a way to delete rapidly multiple extensions (up to 20). Enter the start extension and the final extension, then uncheck or not the checkbox indicating that the used extensions should be kept.

Remark: The used extensions are the extensions:

- Really in use on the XELLIP server (State different from « Not used »),
- Associated to a XELLIP or VDIP agent ("Interface" column not empty).

Extension configuration

Minimal configuration

The configuration of an extension includes at least the following elements:

- **Label**
- **Extension** : extension number (mandatory)

- **Password.**
- **Priority:** Gives a priority to the phone using this extension. If the phone is a XellIP equipment, then the priority configured on the equipment will be used,
- **DTMF mode:** select the method used to transmit the DTMF codes.
 - a. Rfc2833: corresponds to the RFC of the same name. The dtmf codes are transmitted using RTP packets with the codec "telephony-events". This is the default choice.
 - b. Info: the DTMF codes are transmitted using SIP Info messages.
 - c. In band: the DTMF codes are transmitted through the audio stream.

Overflow configuration

It is possible to configure an overflow for each extension. This configuration includes the following elements:

- **If busy** : if extension is busy,
- **If no answer** : if extension is not connected,
- **Parallel Call**: If activated, this option means that all the phones will be called simultaneously (the phones defined in the list or in the chosen call zone). Otherwise the phones will be called sequentially with the interval specified below.
- **Timeout**: (seconds) if "parallel call" is deactivated, this timeout defines the time between each sequential call done to different endpoint in the list.
- **Endpoint list where to overflow**. Choose between existing endpoints. Click on Left/Right arrow to Remove/Add an endpoint. The right list shows the selected endpoints. It is also possible to choose multiple endpoints by keeping « shift » key pressed while selecting endpoints.

Codecs Configuration

By default, the extensions use the codecs defined in the « General Parameters » section of the XELLIP servers. But it is possible to define specific codecs for a specific extension.

Voicemail configuration (Server max only)

It is possible to configure a voicemail for each extension.

- **Label**: user label.
- **PIN (or password)**: code used to access the mail box to manage the received messages. (Dial the Voice Mail Box number – format: « Prefix-Extension Number », where the prefix is configured in the general configuration – Example: 99100). The voice mail manager then asks for the access code.
- **E-mail**: address used to notify the user a new message is available. (Only "simple" SMTP servers without encryption or authentication are supported).

Recording configuration (Server Max only)

It is possible to record communications and to define which calls involving this extension should be recorded.

Call Groups

The call groups are used to create an extension that will call multiple SIP phones simultaneously. The first SIP phone that answers will establish the communication with the caller while the other phones will stop ringing.

Call groups list

The list presents the different call groups configured with the possibility to display, modify or delete each of them.

Call group configuration

The following elements are configurable:

- **Label** : name of the call group (Mandatory)
- **Extension**: extension of the call group.
- **List of extensions to call**: List of existing extensions belonging to this group. Click on right/left arrows to add/remove an extension. The list on the right represents the selected extensions. It is also possible to choose multiple extensions by keeping the «shift» key pressed while selecting them.

Paging groups

The paging groups are used to call all or some of the extensions defined on the server. The extensions called will answer automatically and the caller will be able to make an announcement that will be heard on all the extensions of the group that could be joined and that could answer this call (depending if the extension is already in communication and depending on the priority of the call).

The paging groups have a specific format made of two specific elements:

- a prefix identifying the type of call: call without reply or call with possible reply (see the parameters),
- A suffix corresponding to the identification of the paging group to call.

Paging groups list

The list presents the different paging groups configured with the possibility to display, modify or delete each of them.

Paging groups parameters

This page defines:

- The **prefixes** of the two types of paging groups :
 - a. **Prefix for paging with possible reply**: on 2 digits, (the first one different from 0),
 - b. **Prefix for paging without reply** : on 2 digits (the first one different from 0),
- **Audio Codec**: define the audio codec used when calling paging groups.

Paging group configuration

The following elements must be configured:

- **Label** : name of the call group (Mandatory)
- **Suffix**: suffix of call number. The length of this suffix should be equal to the number format length.
- **Priority**: Combo between 1 and 5.
- **Endpoint**: List of existing endpoint belonging to this group. Click on right/left arrows to add/remove an endpoint. The list on right represents the selected endpoints. It is also possible to choose multiple endpoints by keeping «shift» key pressed while selecting endpoints.

Example:

To call a paging group (suffix "001" for example) with possible reply (with prefix "77" for example), then dial "77001". For a call to the same paging group without any possible reply (with prefix "76" for example), dial "76001".

External systems

The external systems regroup the different configuration elements used to allow the communication between SIP agents registered on different servers.

In other words, they allow the configuration of SIP trunks between different servers.

Inter Connection between two SIP systems

There are three possible ways to establish a link between two SIP systems so that it is possible to establish calls between extensions on each server.

These types are:

- **Static server (or « friend server »):** in this type of relation, each of the two servers knows the IP address of the other in its configuration. There is no need for one of the servers to register on the other.
This type of relation can be used inside an organisation between two systems of the same level of importance of which the IP addresses are well known.
This is the type of relation used to interconnect XellIP servers for example.
- **“Dynamic” Server:** In this case, the server does not know the IP address of the of the SIP system. This second system (the client) must therefore register with the server to be able to communicate with it.
The server defines a username and password that are used by the client to identify itself when registering.
This is the type of relation used by example by the VOIP providers. The provider creates an account and gives to the user the connection information (login/password/server IP address or host name) required to register.
With this method, the VOIP provider does not need to know the IP address of the client: it is dynamically obtained when the client registers.
- **Client:** In this case, the client registers with the server using the information provided by the server administrator (IP address or host name, username and password at least).
It is the type of relation used for example by “interfaces box” used to transform PSTN lines into SIP extensions.

Remark:

The terminology of the external systems is chosen by considering the position of the external in its relation with the XELLIP server.

So an external server that will register on a XELLIP server is a client and a server that will wait for a XELLIP server to register is a “server”.

Connection type selection

The choice of the type of connection between a XellIP system (router or server) depends mainly on the connection provided by the external system.

Example 1:

- An external system asks for the following parameters :
 - *server IP address or host name,*
 - *user name,*
 - *password,*

- *Authentication user (possibly).*

These parameters indicate that the external system wants to register on a server (and therefore behaves as a client).

It must be created in the section "External systems/External Clients" to be able to register on the XellIP system.

Example 2:

- An external system does not request any parameters and provides the following information:
 - *user (or user name),*
 - *password,*

This information with the server IP address or host name indicates that the external system presents itself as a server and waits for a client to register.

In this case, create an external server ("External systems/External servers"), check the check-box « register on the server » and provide the required information.

Example 3:

- An external system asks for the following information :
 - *remote SIP server address,*

This information is enough to interface two "friend" servers statically. In CASTELServeur, create a server in the section "External systems/External servers", without the registration on the server.

These simple examples illustrate the different types of connections and give the first clues to which method to use to interface two SIP systems.

The terms used in this documentation can vary from a SIP system to another ("VOIP provider", bridge (with a "master" and a "slave" to identify the server and the client), etc...). It will therefore be necessary to identify the type of connection using the documentation of the external system.

The external servers

This section is used to configure existing external SIP servers. The idea is to allow calls to be made from SIP extensions registered on the XellIP server towards extensions managed by another SIP server.

It is then possible to establish SIP trunk connections between the SIP servers.

See the paragraph [Inter Connection between two SIP systems](#) for more basic details on SIP trunk.

External servers list

The list presents the different external servers configured with the possibility to display, modify or delete each of them.

The table also indicates for each server by which XELLIP server the connection will be held. The choice of the XELLIP server is made by comparing the outgoing call rules and/or the external extensions with the dialplan.

If neither outgoing call rule nor external extension is defined for an external server, then this server is not associated with any XELLIP server and is marked as « inactive ».

External server configuration

The following information is required to configure an external server:

- **Label**
- **Address:** IP address of the server,
- **Port:** the sip port used by the remote server,

These parameters are sufficient to configure a "static" server (or "friend" server) keeping in mind that the XellIP server must also be defined in the external system.

In the case of a "dynamic" server (the XellIP router or server being the client), it is necessary to provide the following information to register on the server:

- **Check the check-box "Register on the server"** then fill the following fields as required:
 - **User:** user provided by the SIP server administrator to interact with the remote server,
 - **Password:** password corresponding to the user (optional),
 - **Authentication User:** user name given by the SIP server administrator used specifically to register with the remote server (optional),

Other configuration options:

- **Codecs:** It is possible to define specific codecs to use for the SIP communications with the remote server. By default, the codecs defined in the general configuration are used.

External Clients

This section is used to configure existing external SIP clients. The idea is to allow calls to be made from SIP extensions registered on the XellIP server towards extensions managed by another SIP server.

It is then possible to establish SIP trunk connections between the SIP servers.

See the paragraph [Inter Connection between two SIP systems](#) for more basic details on SIP trunk.

External clients list

The list shows the different external clients configured with the possibility to display, modify or delete each of them.

The table indicates for each client which XELLIP server manages the connection to the client. The choice of the XELLIP server is made based on the outgoing call rules and/or the external extensions configured for this client.

If neither outgoing call rule nor external extension exist for this client, then the external client is not associated with a XELLIP server and is displayed as « inactive ».

External client configuration

To configure a SIP trunk client, the following parameters are provided:

- ***Label***
- ***Extension or user (at least one letter).***
- ***Password (optional).***

Once created on the server, the client can register with the XellIP server. The registration state is indicated in the list view or at the top of the page when looking at one client.

External call rules

This section is used to define the rules that will be used to make external calls towards extensions registered on external systems. It is therefore required to have defined external systems to be able to configure external rules.

The rules defined in this page are the external rules used to make outgoing calls to external systems.

All the extensions registered on a XellIP server can be called by an external server configured to interact with a XellIP server.

Remark:

It is important to define precisely the organization of the extensions that will be managed by the server. The important point is to separate the local numbers from the external numbers (on external systems) so that it is possible to define simple rules identifying the external calls.

It is therefore recommended before configuring anything to have decided what will be the structure of the dial plan between the local numbers and the external numbers.

External call rule configuration

The following information defines an outgoing call:

- **Label**
- **Call numbers starting with prefix:** prefix used to match a call with the current rule. This prefix must not conflict with other prefixes or extension numbers. It is also possible to use patterns to identify more precisely the extensions numbers to consider:
 - "7[14]": will match numbers starting with "71" and "74".
 - "7[5-7]": will match numbers starting with "75", "76" et "77".
- **Strip the first N digits.** This optional functionality is used to remove N digits from the extension called before dialling to the remote server.
- **Prepend the digits.** This optional functionality is used to add the given digits in front of the extension called before dialling the remote server.

Remarks:

The "Called extension modification" rules are applied in the order in which they are defined. Digits will be stripped (if configured) before the additional digits (if configured) are added in front of the extension number.

External Extensions

The external extensions are used to identify extensions on external systems by giving them local numbers.

These extensions are then usable when configuring the overflow or when creating call groups.

External extension configuration

The following information is required to define an external extension:

- **Label**
- **Local Number :** this is the "local" number of the remote extension compatible with the number format configured in the XellIP server,
- **Remote Number :** name of the extension on the remote server,
- **Server/Client :** choice of the external system on which the extension is located,

Remarks:

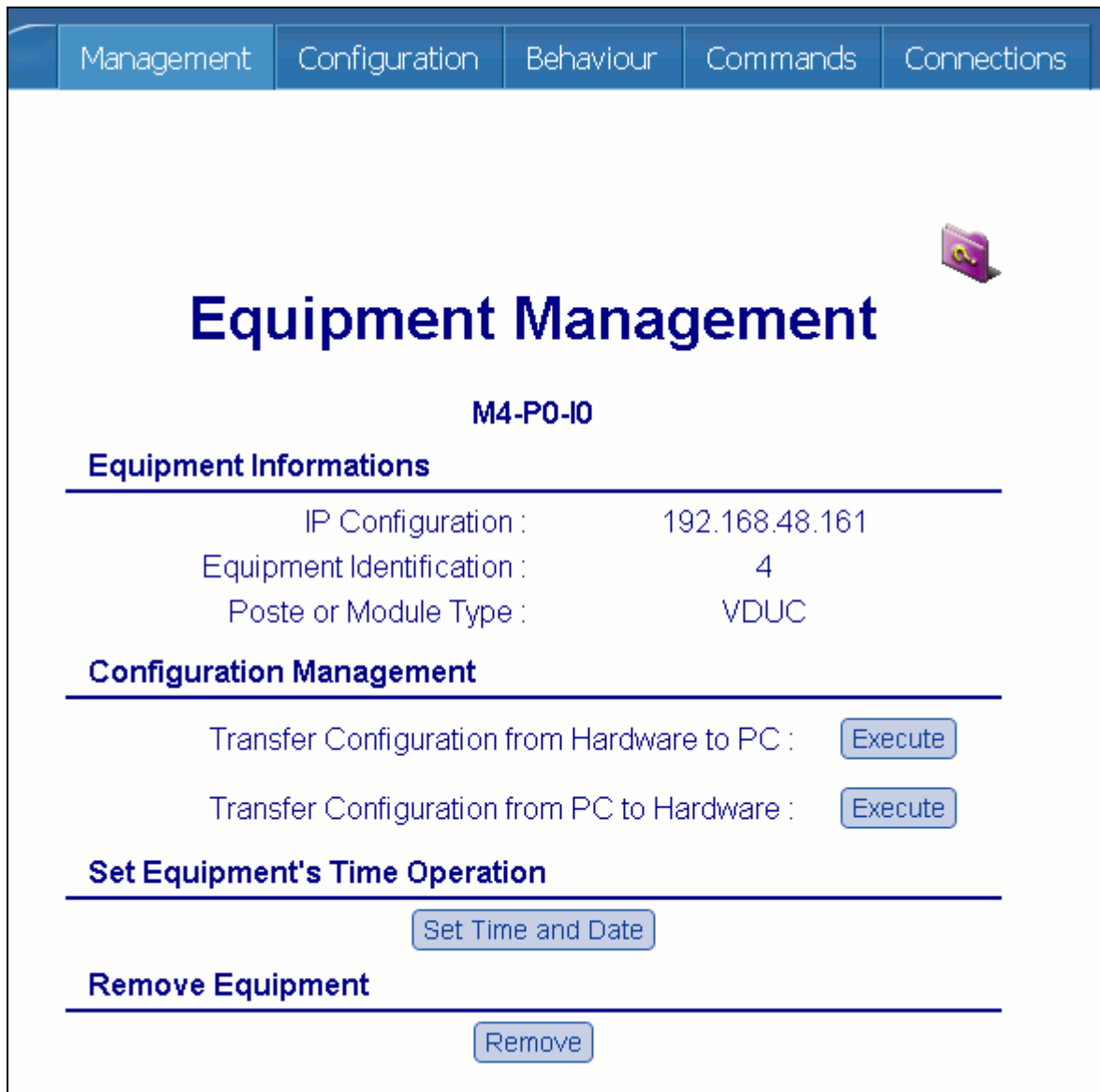
- The external extensions are displayed in blue in the interfaces selection lists when configuring the overflow or call groups,

- The external extensions cannot be used in paging groups,

THE VDUC

VDUC Management

- This page is used to perform some “administrative operations” on the VDUC.



Equipment Management

M4-P0-I0

Equipment Informations

IP Configuration :	192.168.48.161
Equipment Identification :	4
Poste or Module Type :	VDUC

Configuration Management

Transfer Configuration from Hardware to PC :

Transfer Configuration from PC to Hardware :

Set Equipment's Time Operation

Remove Equipment

- It is possible to retrieve the configuration from a VDUC to save it in the database of the server (for example if it was modified directly from the VDUC's web server) using "Transfer Configuration from Hardware to PC", and it is also possible to send its configuration to a VDUC using "Transfer configuration from PC to Hardware",
- It is possible to set the time of a VDUC (the time of the server will be used),
- It is possible to remove a VDUC from the system.

- This page is accessible by clicking on a VDUC in the material tree, then by clicking on the "Management" tab (if it is not already selected).

VDUC Parameters

Equipement "Entrée principale"

M4-P0-I0

Etat de l'équipement

Etat : **Erreur Matériel**

Paramétrage de l'équipement

Informations sur l'équipement

Type d'Equipement :	VDUC
Version du Matériel :	1710_A
Version du Logiciel :	1.9.0(20111007_15h08)
Nombre de badgeages secours :	1000
Nombre d'autres évènements secours :	1000

Configurer

Bus RS485

Etat :	Erreur Matériel	Afficher
Périphériques configurés :	2	

Périphériques logiciels

Etat :	Normal	Afficher
Périphériques configurés :	1	

- ❑ This page displays the information of a VDUC and allows the user to modify its configuration parameters (Depending on the user's rights, the button "Configure" will be available, or not).
- ❑ This page also displays the status of the RS485 bus and the global status of the logical devices configured.
- This page is accessible by clicking on a VDUC in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).

VDUC configuration

- ❑ This page is used to configure some of the parameters of the VDUC such as the label, the IP address and the sizes of the events Fifos. These Fifos are used to store the secured or blocking events if they can be delivered to **CASTELServer**.
- This page is accessible by clicking on the "Configure" button from the page "VDUC Parameters".










Bus RS485



This page shows the RS485 bus with all its devices.

Equipment "Entrée principale"

M4-P0-I0

RS485 Bus

Label	Type	N°	Declared			
Portier151	PMA-V 1B	1	Yes			3  
VD8E_alarms	VD8E	2	Yes			3  
<input type="text" value="New"/>	<input type="text" value="VDLect"/>	3 	-	<input type="button" value="Add"/>		

- ❑ This page displays the peripheral devices configured on the VDUC as well as their current state indicated by the colour of the label ("red" in case of error, "green" otherwise"). It is then possible to click on the device to visualise its configuration.
- ❑ If the user has been granted the rights to configure the material, it will also be possible to:
 - Remove a declared device by clicking on the icon ,
 - Add a material device (if less than 15 have been declared) after specifying a label, a type and an address, and then clicking on the "Add" button (on the last two lines of the list).
 - Add a device by copying the configuration of an existing one: on the line of the peripheral to copy, choose the address of the new one and click on "Clone".
 - Configure a device connected on the RS485 Bus but not yet declared in the VDUC (theses devices appear with the label "Not declared" in the list, are displayed in grey in the material tree and only propose the configuration icon ).
- This page is accessible by clicking on a RS485 Bus in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).






Logical devices


This page shows the logical devices configured on the VDUC.

Equipment "Entrée principale"

M4-P0-I0

Logical devices

Label	Type	N°			
flags	VDFLAG	31			32 
<input type="text" value="New"/>	VDFLAG 	32 	<input type="button" value="Add"/>		

- ❑ This page displays the logical devices configured on the VDUC as well as their current state indicated by the colour of the label ("red" in case of error, "green" otherwise"). It is then possible to click on the device to visualise its configuration.
- ❑ If the user has been granted the rights to configure the material, it will also be possible to:
 - Remove a declared device by clicking on the icon ,
 - Add a logical device (if less than 15 have been declared) after specifying a label and an address, and then clicking on the "Add" button (on the last two lines of the list).
 - Add a device by copying the configuration of an existing one: on the line of the peripheral to copy, choose the address of the new one and click on "Clone".
- This page is accessible by clicking on "Logical devices" of equipment in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).

VDUC local configuration

The VDUC local configuration includes only the configuration of the SIP parameters.

SIP Configuration

- ❑ The default SIP addresses of the « Door Panels » are initially defined as follows: <pid of the door panel>@<IP address of the VDUC> (for example, a door panel with the address 1 on the RS485 bus of VDUC 192.168.49.155 will have the SIP address [1@192.168.49.155](#)). But this address can be modified in the configuration of the audio interface of each "Door Panel".

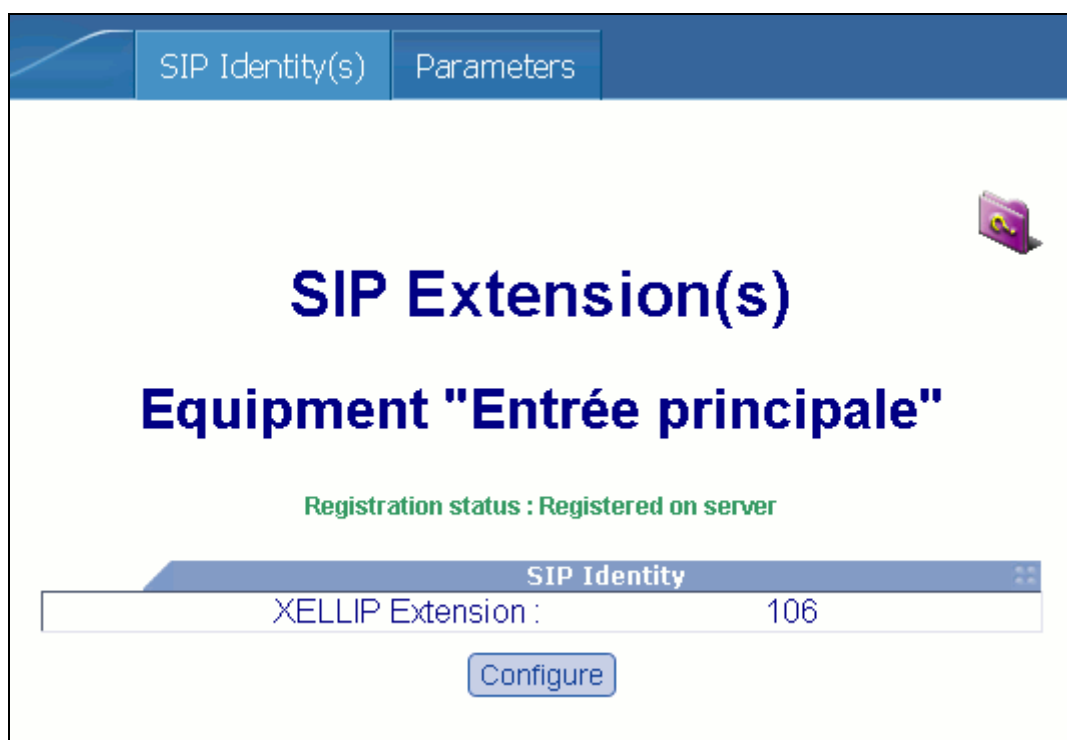
- ❑ The following page accessible from the material tree via the links « **Local configuration** → **SIP** → '**SIP Identity**' tabulation » is used to configure the SIP addresses of the « door panels » associated to a VDUC.
- ❑ If the VDUC is used in standalone or with an external server (Not XELLIP), then the configuration page will look as follows.

The screenshot shows a web interface for configuring SIP Identity. At the top, there are two tabs: 'SIP Identity(s)' and 'Parameters'. The main heading is 'SIP Extension(s)' followed by 'Equipment "160"'. Below this, a green message states 'Registration status : No server configured.' A table titled 'SIP Identity' contains the following configuration details:

SIP Identity	
UserId :	160
Display Name :	160
Server Registration Password :	160
Server Registration User :	160

Below the table is a 'Configure' button.

- ❑ This configuration includes :
 - The **userId** corresponding to the first part on the SIP address (generally called "extension" when using an SIP server).
 - The « **display name** » will be displayed on the called SIP device's display (if any). (This is true in "standalone without a SIP server. When a SIP server is used, this label is imposed by the configuration of the extension in the server.)
 - The « **Server registration password** » (if omitted, the user Id will be used as password).
 - The « **registration user** » (if omitted the user Id will be used.)
- ❑ If more than one « door panels » are connected to the VDUC (using a VDMP device), then there will be as many SIP identity as « door panels ».
- ❑ If the VDUC is used with XELLIP Servers, then the SIP Identity configuration page will look as follows :

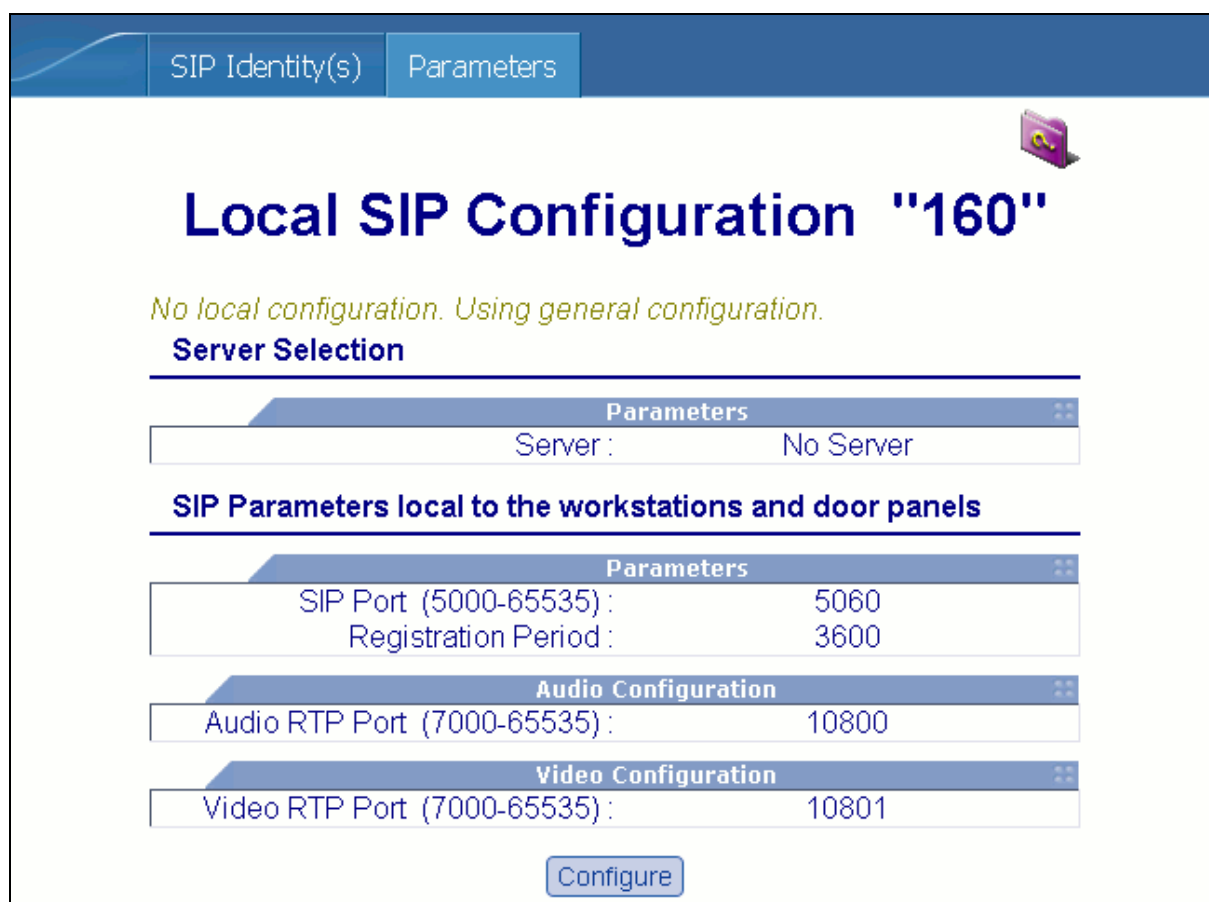


The screenshot shows a web interface with a blue header bar containing two tabs: 'SIP Identity(s)' and 'Parameters'. The main content area has a large blue title 'SIP Extension(s)' and a subtitle 'Equipment "Entrée principale"'. Below this, a green status message reads 'Registration status : Registered on server'. A table with a blue header 'SIP Identity' contains one row: 'XELLIP Extension : 106'. A 'Configure' button is located below the table.

SIP Identity
XELLIP Extension : 106

Configure

- The following page accessible from the material tree via the links "**Local configuration** → **SIP** → **Parameters tab**" is used to redefine the SIP parameters specifically for an SIP device.



The screenshot shows a web interface with a blue header bar containing two tabs: 'SIP Identity(s)' and 'Parameters'. The main content area has a large blue title 'Local SIP Configuration "160"'. Below this, a green status message reads 'No local configuration. Using general configuration.' A section titled 'Server Selection' contains a table with a blue header 'Parameters' and one row: 'Server : No Server'. A section titled 'SIP Parameters local to the workstations and door panels' contains three tables. The first table has a blue header 'Parameters' and two rows: 'SIP Port (5000-65535) : 5060' and 'Registration Period : 3600'. The second table has a blue header 'Audio Configuration' and one row: 'Audio RTP Port (7000-65535) : 10800'. The third table has a blue header 'Video Configuration' and one row: 'Video RTP Port (7000-65535) : 10801'. A 'Configure' button is located below the tables.

No local configuration. Using general configuration.

Server Selection

Parameters
Server : No Server

SIP Parameters local to the workstations and door panels

Parameters
SIP Port (5000-65535) : 5060
Registration Period : 3600

Audio Configuration
Audio RTP Port (7000-65535) : 10800

Video Configuration
Video RTP Port (7000-65535) : 10801

Configure

- By default, the VDUC is using the General SIP configuration. This page can be used to define a configuration specific to a VDUC or to cancel it to return to the general configuration.

VDUC EVO

VDUC Evo material configuration

VDUC Evo « Management »

- This page is used to perform some “administrative operations” on the VDUC Evo.

Equipment Management

M27-P0-I0 (1769472)

Equipment Informations

IP Configuration :	192.168.48.159
Equipment Identification :	27
Poste or Module Type :	VDUC Evo

Configuration Management

Transfer Configuration from Hardware to PC :	<input type="button" value="Execute"/>
Transfer Configuration from PC to Hardware :	<input type="button" value="Execute"/>

Set Equipment's Time Operation

Remove Equipment

- It is possible to retrieve the configuration from a VDUC Evo to save it in the database of the server (for example if it was modified directly from the VDUC's web server) using “Transfer Configuration from Hardware to PC”, and it is also possible to send its configuration to a VDUC Evo using “Transfer configuration from PC to Hardware”,
 - It is possible to set the time of a VDUC Evo (the time of the server will be used),
 - It is possible to remove a VDUC Evo from the system.
- This page is accessible by clicking on a VDUC Evo in the material tree, then by clicking on the “Management” tab (if it is not already selected).

VDUC Evo « Configuration »

Equipment
"VDUCEvo_Batiment1"

M27-P0-I0 (1769472)

Equipment state

State Material Error
Start Date : 12-09-2012 18:13:28

Equipment Configuration

Equipment Informations :

Poste or Module Type :	VDUC Evo
Hardware Version :	1720
Software Version :	1.0.0 (20120910_09h18)

[Configure](#)

Local Interfaces

Status :	Normal	View
----------	---------------	----------------------

First RS485 Bus

Status :	Material Error	View
Configured elements :	2	

Second RS485 Bus

Status :	Material Error	View
Configured elements :	2	

Logical devices

Status :	Normal	View
Configured elements :	1	

- ❑ This page displays the information of a VDUC and allows the user to modify its configuration parameters (Depending on the user's rights, the button "Configure" will be available, or not).
- ❑ This page also displays the status of different configuration subsets:
 - The local interfaces,
 - The two RS485 bus,
 - The logical devices.

For each of these subsets, the current status is indicated with a specific colorization ("red" in case of failure with the type of fault, "green" otherwise.). A "View" button gives access to detailed configuration of each subset.

- This page is accessible by clicking on a VDUC Evo in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).

VDUC EVO « Parameters »

- This page is used to configure some of the parameters of the VDUC such as
 - the label,
 - the IP address,
 - the domain.
- This page is accessible by clicking on the "Configure" button from the page "VDUC Parameters".

Local Interfaces configuration




- This page allows you to view local interfaces of a "VDUC Evo" with their error condition indicated by the colour display label ("**red**" in case of error, "**green**" otherwise.). It is possible to click on an interface to view its configuration.

Local Interfaces on material

"VDUCEvo_Batiment1"

M27-P255-IO (1834752)

Interfaces

Label	N°	Type	
Entrée (VDUCEvo_Batiment1)	1	Input	
Sortie (VDUCEvo_Batiment1)	2	Output	
Contact (VDUCEvo_Batiment1)	10	Input	

[Back To Equipment](#)

- This page is accessible by clicking on "Local interfaces" when the "Configuration" tab of a VDUC Evo is displayed.

Bus RS485

This page is used to display each RS485 bus of a "VDUC Evo". The "VDUC Evo" is able to use a different protocol on each RS485 bus. By default, no protocol is configured on the bus and the page looks as follows.

Equipment "VDUCEvo_Batiment1"

M27-P0-I0

First RS485 Bus

Parameters	
RS485 Protocol :	None

[Configure](#)

[Back To Equipment](#)

It is then possible to choose the protocol used by the RS485 bus. The following protocols are currently supported:

- VDIP: to manage VDIP devices,
- Aperio: to manage APERIO locks.
- VDIP2 to manage the new VD4Lect devices.

VDIP Protocol

If the configured protocol is VDIP, the bus configuration looks as follows:

Configuration
Behaviour

Equipment "VDUCEvo_Batiment1"

M27-P0-I0

First RS485 Bus

Parameters	
RS485 Protocol :	VDIP
Maximum Equipements Number :	15

Label	Type	N°	Declared		
<u>Main Door</u>	VDLect	1	Yes		
<input style="width: 80%;" type="text" value="New"/>	VDLect ▼	2 ▼	-	Add	

[Back To Equipment](#)

- Column « N° » indicates simultaneously the logical Id of the device as well as its RS485 address on the bus.

Aperio Protocol

From version 3.6.0 of CastelServer, the configuration page of a bus using the Aperio protocol looks as follows:

Equipment "VDUCEvo_Batiment1"

M3-P0-I0

First RS485 Bus

Parameters	
RS485 Protocol :	APERIO
Maximum Equipements Number :	15

Undeclared locks

RS address
35

Label	Type	N°	RS address				
Nouveau1	E100	1	1			4	
Nouveau	E100	2	19			4	
Nouveau3	E100	3	3			4	
New	E100	4		<input type="button" value="Add"/>			

- Column « N° » only indicates the logical Id of the device used by the VDIP system. Column « RS address » indicates the RS485 address used on the bus. This address is between 1 and 250 included. This is required to manage the 8 locks hubs whose addresses are above 15 from the second lock.

VDIP2 Protocol

From version 3.6.0 of CastelServer, protocol VDIP2 is supported to manage the new VD4Lect devices.

Equipment "192.168.48.150"

M2-P0-I0

First RS485 Bus

Parameters			
RS485 Protocol :	VDIP2		
Maximum Equipements Number :	15		

Label	Type	N°	MAC Prod Address	
batiment 1	VD4Lect	1	13236dcc	<div style="display: inline-block; border: 1px solid #ccc; padding: 2px 5px;">3</div>
batiment 2	VD4Lect	2	13236ebb	<div style="display: inline-block; border: 1px solid #ccc; padding: 2px 5px;">3</div>
<div style="border: 1px solid #ccc; padding: 2px;">New</div>	VD4Lect	3	<div style="border: 1px solid #ccc; width: 100px; height: 20px;"></div>	<div style="border: 1px solid #ccc; padding: 2px 10px; background-color: #add8e6;">Add</div>

Back To Equipment

- ❑ Column « N° » indicates only the logical Id of the device in the VDIP system. Column « Mac Prod » identifies uniquely a device on the VDIP2 bus. This "address" is indicated on the device itself and on its packaging box.
- ❑ The « undeclared devices » (if any) are displayed in the « undeclared devices » table from which they can be configured.

RS devices management

- ❑ For all protocols, this page displays the configured devices and their status indicated by the color display label ("red" event of default "green" otherwise.). It is possible to click on a device to view its configuration.
- ❑ If the user has the hardware configuration rights, he can also:
 - remove a declared device clicking on the icon ,
 - add a device (if less than 15 devices are declared) indicating its name, its type and address, then clicking "Add" (last line of Table devices)
 - add a device by copying an existing device: on the line of the device to copy, select the address of the new device and click the duplication icon.
- This page is accessible by clicking on one of the RS485 bus of the VDUC Evo in the material tree or when the "Configuration" tab of a VDUC Evo is displayed.

Logical devices

This page shows the logical devices configured on the VDUC Evo.

Equipment "VDUCEvo_Batiment1"

M27-P0-I0

Logical devices

Label	Type	N°			
Flags	VDFLAG	32			31
<input type="text" value="New"/>	VDFLAG	31	<input type="button" value="Add"/>		

- ❑ This page displays the logical devices configured on the VDUC Evo as well as their current state indicated by the colour of the label ("red" in case of error, "green" "otherwise"). It is then possible to click on the device to visualise its configuration.
- ❑ If the user has been granted the rights to configure the material, it will also be possible to:
 - Remove a declared device by clicking on the icon ,
 - Add a logical device (if less than 15 have been declared) after specifying a label and an address, and then clicking on the "Add" button (on the last two lines of the list).
 - Add a device by copying the configuration of an existing one: on the line of the peripheral to copy, choose the address of the new one and click on Duplication icon.
- This page is accessible by clicking on "Logical devices" of equipment in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).

XELLIP WORKSTATIONS AND DOOR PANELS

Material configuration

« Management » Tab

- This page is used to perform management operations on the XELLIP equipment.



Management Configuration Behaviour Commands Connections

Equipment Management

M3-P0-I0

Equipment Informations

IP Configuration :	192.168.49.229
Equipment Identification :	3
Poste or Module Type :	XEDESK-SCREENV-P

Configuration Management

Transfer Configuration from Hardware to PC :	<button>Execute</button>
Transfer Configuration from PC to Hardware :	<button>Execute</button>

Set Equipment's Time Operation

Set Time and Date

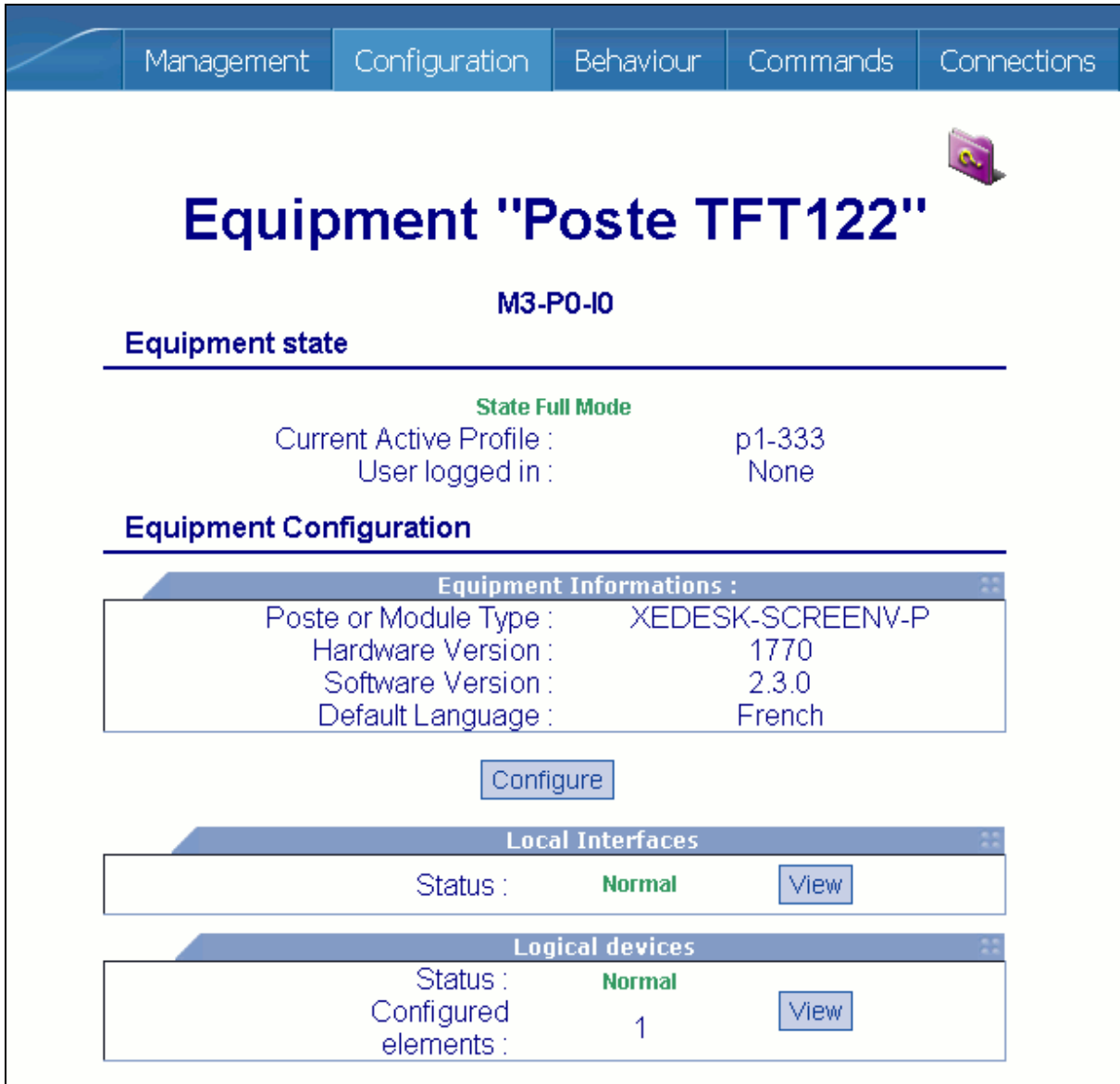
Remove Equipment

Remove


- It is possible to retrieve the configuration from a XELLIP equipment to save it in the database of the server (for example if it was modified directly from the internal web server) using "Transfer Configuration from Hardware to PC", and it is also possible to send its configuration to a XELLIP equipment using "Transfer configuration from PC to Hardware",
- It is possible to send the time configuration to a XELLIP equipment (NTP configuration or time of the PC if manual configuration),
- It is possible to remove XELLIP equipment from the system.

- This page is accessible by selecting XELLIP equipment in the material tree, and then clicking on the « Management » tab (if not already selected).

« Configuration » Tab



The screenshot shows the 'Configuration' tab selected in a navigation bar. The main heading is 'Equipment "Poste TFT122"'. Below it, the identifier 'M3-P0-I0' is displayed. A section titled 'Equipment state' shows 'State Full Mode' in green, 'Current Active Profile : p1-333', and 'User logged in : None'. Another section titled 'Equipment Configuration' contains a table of 'Equipment Informations' with fields: Poste or Module Type (XEDESK-SCREENV-P), Hardware Version (1770), Software Version (2.3.0), and Default Language (French). Below this table is a 'Configure' button. Further down, 'Local Interfaces' shows 'Status : Normal' with a 'View' button. Finally, 'Logical devices' shows 'Status : Normal', 'Configured elements : 1', and a 'View' button. A magnifying glass icon is visible in the top right corner of the interface.


- ❑ This page displays the information of a XELLIP equipment and allows the user to modify its configuration parameters (Depending on the user's rights, the button "Configure" will be available, or not).
- ❑ This page also displays the global status of the local interfaces and of the logical devices configured on the XELLIP equipment as well as their current state indicated by the colour of the label ("red" in case of error, "green" otherwise). It is then possible to click on the icon  to visualise the configuration of a specific element.

- This page is accessible by clicking on XELLIP equipment in the material tree, then by clicking on the "Configuration" tab (if it is not already selected).


XELLIP equipment configuration

- This page is used to configure some of the parameters of the XELLIP equipment such as:
 - the label,
 - the IP address,
 - the type of equipment (if not connected or if there is mismatch between the configured type and the real type of the equipment).
 - The default language (for the equipments with display screens),
 - The domain.
- This page is accessible by clicking on the "Configure" button from the page "Configuration Tab" of XELLIP equipment.

Local interfaces "configuration" Tab

- This page displays the information of the local interfaces with their current error status indicated by the colour of the label ("red" in case of error, "green" otherwise.). It is possible to click on the label or the icon  to visualise the configuration of an interface.

Configuration
Behaviour
Commands









Local Interfaces on material "Poste TFT122"

M3-P255-I0

Peripheral State

State Normal

Interfaces

Label	N°	Type	
E1	1	Input	
S1*	2	Output	
AudioPosteChef	3	Audio	
Vidéo	4	Video	
Display	5	Display	
Keyboard	6	Keyboard	

- This page is accessible by clicking on "Local interfaces" when the "Configuration" tab of a XELLIP equipment is displayed.

XELLIP equipment Local Configuration

The local configuration of the XELLIP equipments (workstations and "door panels") allows the configuration of the following elements:

- The SIP configuration,
- The calls management,
- The phone profiles management,
- The phone users (only on desktop equipments),
- The Code/Local assess (only on specific equipments with keyboard or keypad).

SIP Configuration

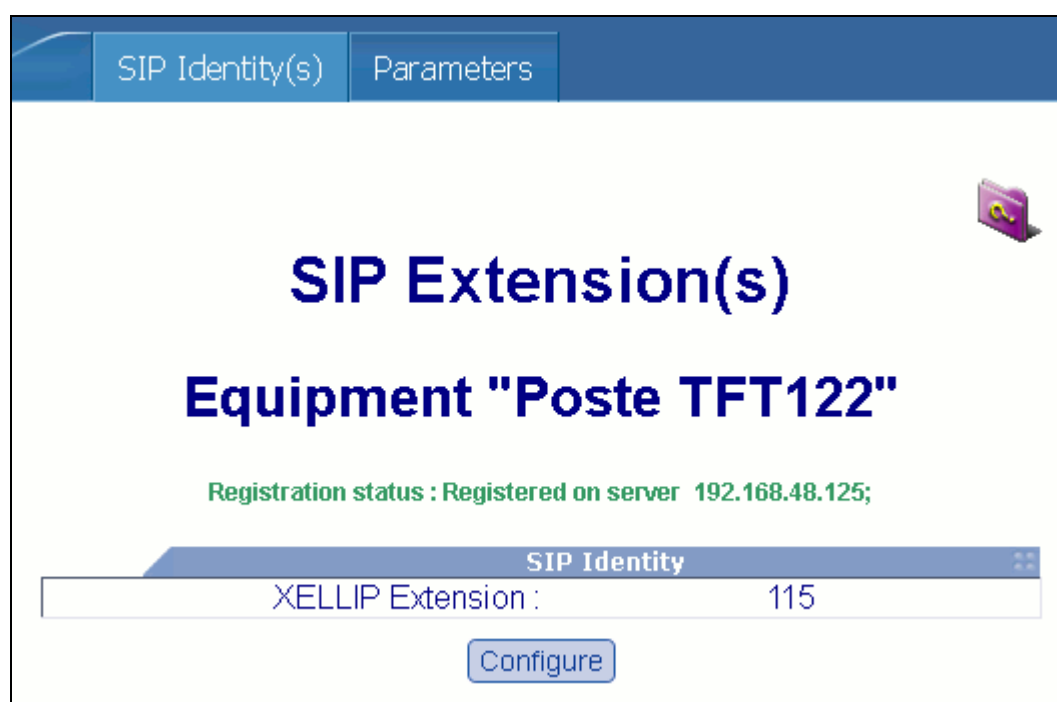
- ❑ The following page accessible from the material tree via the links « **Local configuration** → **SIP** → '**SIP Identity**' tabulation » is used to configure the SIP addresses of the XELLIP equipments.
- ❑ If the XELLIP equipment is used in standalone or with an external server (Not XELLIP), then the configuration page will look as follows.

The screenshot shows a web interface for configuring SIP Identity. At the top, there are two tabs: 'SIP Identity(s)' and 'Parameters'. The main heading is 'SIP Extension(s)' followed by 'Equipment "Poste TFT122"'. Below this, a green message states 'Registration status : No server configured.' There is a table with the title 'SIP Identity' containing the following data:

SIP Identity	
UserId :	115
Display Name :	115
Server Registration Password :	115
Server Registration User :	

At the bottom of the table area is a 'Configure' button.

- ❑ This configuration includes :
 - The **userId** corresponding to the first part on the SIP address (generally called "extension" when using an SIP server).
 - The « **display name** » will be displayed on the called SIP device's display (if any). (This is true in "standalone without a SIP server. When a SIP server is used, this label is imposed by the configuration of the extension in the server.)
 - The « **Server registration password** » (if omitted, the user Id will be used as password).
 - The « **registration user** » (if omitted the user Id will be used.)
- ❑ If the XELLIP equipment is used with XELLIP Servers, then the SIP Identity configuration page will look as follows :




The screenshot shows a web interface for configuring SIP parameters. At the top, there are two tabs: 'SIP Identity(s)' and 'Parameters'. The main heading is 'SIP Extension(s)' in large blue font, followed by 'Equipment "Poste TFT122"' in bold blue font. Below this, a green status message reads 'Registration status : Registered on server 192.168.48.125;'. A table with the header 'SIP Identity' contains one entry: 'XELLIP Extension : 115'. A 'Configure' button is located below the table. A small folder icon is visible in the top right corner of the main content area.

SIP Identity
XELLIP Extension : 115

Configure

- The following page accessible from the material tree via the links "**Local configuration** → **SIP** → **Parameters tab**" is used to redefine the SIP parameters specifically for an SIP device.

SIP Identity(s)
Parameters



Local SIP Configuration "Poste TFT122"

No local configuration. Using general configuration.

Server Selection

Parameters	
Server :	XELLIP Server(s)

SIP Parameters local to the workstations and door panels

Parameters	
SIP Port (5000-65535) :	5060
Registration Period :	3600

Audio Configuration	
Audio RTP Port (7000-65535) :	10800
Audio Codecs :	PCMU, PCMA, GSM

Video Configuration	
Video RTP Port (7000-65535) :	10802
Video Codecs :	H264, H263-1998, H263

DTMF Codecs	
RFC-2833 :	Yes
SIPINFO :	No

- By default, the XELLIP equipment is using the General SIP configuration. This page can be used to define a configuration specific to a XELLIP equipment or to cancel it to return to the general configuration.

Call Management

Call Management regroups parameters related to the calls emitted or received by the XELLIP SIP agents.

These parameters are:

- **Outgoing calls priority:** define the default call priority for the station. If the user is logged and his profile defined a priority for outgoing calls higher than this one, it's the one defined by the profile which is used.
- **Maximum number of simultaneous calls:** number of calls the station can treat in the same time (1 to 20 calls). This number includes incoming calls, the current communication and communication put on hold.
- **Automatic answer:** indicates if taking calls is automatic or not.
 - a. It is possible to configure a delay before the station automatically answers.
 - b. When the option "secret enable" is active, the station answer automatically but the microphone is shut off. The station user must activate the microphone to be heard by the caller.
- **LED specific handling (kits only):** It is possible to configure the LED management to handle the "tranquilizing mode". In this mode, only one LED is used to indicate the status of the call: blinking during the call establishment, lit during the communication.

Functions Keys / Buttons

This page provides a direct access to the function keys configuration of:

- The current profile if the equipment is connected to CASTELServeur,
- The default profile if the equipment is not connected to CASTELServeur.

Remark: The function keys are configured in each profile of the equipment. It is therefore possible to create different function keys configurations in different profiles. The current profile of the equipment can then be changed using relations based on:

- Time,
- Material or logical events.

See the next paragraph "[Profiles Management](#)" for more information on the profiles.

See paragraph "[Relations management](#)" for more information on the "Relation" elements.

Lift configuration

This page is only accessible for the elevator kits. It is used to configure specific parameters.

Call configuration

- **Outgoing calls priority:** define this call priority. The default priority level for outgoing calls defined globally is not used in this case.
- **In case of failure, repeat calls after a delay of x seconds:** when the value is zero, this option is not available. In the others cases, the call is emitted until a communication is established. At the end of the call attempt, the station waits the delay configured.
- **Call Type:** Simultaneous or sequential.
- **Call number:** this is the SIP number of the station to be called
- **Delay/Duration:** the delay before calling this address for simultaneous calls. Or the duration of this call for sequential calls.

The icons can be used to configure a SIP number to call from the phone book

With simultaneous calls, up to 10 numbers can be called at the same time but only the first one who answers will be in communication.

With sequential calls, up to 10 numbers can be called successively. The first to answer will take the call and stop the sequence.

Other settings:

- **Disable the filter on the input indicating if the lift is moving or the doors are opened:** this parameter allow to not take care of the filtering input which forbid to call when the lift is moving or the doors are opened. So with this option the call are send systematically
- **Disable the end of alarm on site:** usually to terminate the alarm state on lift, someone must go to the site and enable an input on the station. This option allow to leave the alarm state as soon as the communication is terminated without to have to go to se site.
- **Relay automatic activation:** when checked, activate the relay when the lift enters the alarm mode.

Profiles Management

The profiles are used to regroup configuration elements of the XELLIP equipments. They are used to modify the configuration of the equipment depending on external events or actions local to the equipment.

The profiles are also associated to the phone users to define specific configuration for specific phone users.

« Management » Tab

This page displays the current active profile on the equipment as well as the default profile.

The current profile can differ from the default profile depending on the configuration of the equipment (schedule relations loading a specific profile at a specific time) or on its current usage (phone user logged on the equipment with a specific profile).

« Configuration » Tab

This page lists the different phone profiles configured on this equipment. It is possible to view, modify, delete or duplicate each of them.

It is also possible (if other XELLIP equipment exist) to create a phone profile by duplicating the profile of another equipment.

Profile Configuration

Interphonie profile configuration

Profile Global Parameters

Label :

Inactivity delay after which the user will be disconnect (sec.) :

Outgoing calls priority :

Allowed access

Functions keys : ☒



Keyboard and Phone book : ☒

Station configuration : ☒



Audio configuration : ☒

Function keys Configuration



Function key 1

Label : Appel 161
Associated Function : Call (With confirmation)  



Function key 2

Label : DTMF
Associated Function : Telecommand  


Function key 3

Label : Détection Bruit
Associated Function : Other functions  

Function key 4

Label : micro-casque
Associated Function : HeadSet  

Directory

Propose the full directory 

Noise detection

Activate Noise detection : ☐

Sensibility :

Delay (1/10 of sec) :

The configuration of a phone profile includes:

- The general parameters of the profile including the access rights,
- The function keys,
- The directory configuration (on the equipments using a directory),
- The noise detection configuration.

Profile general parameters

These parameters include:

- **The profile's label,**
- **Inactivity delay after which the user will be disconnect (sec.)**
(on the equipment supporting phone users),
- **Outgoing calls priority** : priority of the calls made by dialling on the keyboard (not through the function keys),
- **The Access rights:**
 - a. **Function keys:** authorizes access to function keys when the profile is loaded,
 - b. **Keyboard and phone book:** authorizes access to the keyboard and the telephone book when the profile is loaded,
 - c. **Station configuration:** authorizes configuration of parameters IP, SIP, etc. through the keyboard.
 - d. **Audio configuration:** volume levels configuration from the station (using the keyboard and/or the touch screen).

Function keys

The number of function keys can vary depending on the type of the XELLIP equipment. On the "Desktop" equipments, they are the 4 keys below the screen, and they are the call buttons on the "door panel".

These keys can be configured for each profile to perform specific actions.

The list of function keys

Each line indicates the label of the function key if this has been set as well as its associated function

The configuration page

The configuration of a function key includes the following elements:

- **Button label:** label allowing identification of the function associated with the key,
- **Display a confirm message:** displays the text of the button or menu on the first press. This option requests the user to confirm or cancel the action.
- **Associated function:** allows the configuration of the specific action to perform.

The associated functions

The associated functions can be of the following types:

- **Call:** defines a call to up to 10 sip agents (See paragraph "[Configure a call on XELLIP agents](#)").
- **Telecommand:** use to perform local or remote commands.
 - a. **Command of the local station relay:** allows controlling the local output on the module,

- b. **Command of the relay for the station in communication:** allows commanding the local station output with which one is in communication,
 - c. **Send the following DTMF code:** allows associating a send button to a DTMF code configured on the page for this,
 - d. **Multiple command:** allows the configuration of actions on any equipment managed by CASTELServeur
- **Transfer and forward a call:** This option is not available for all types of station.
 - a. **Forward the call to:** allow forwarding all calls to a predefined station, used in particular if one is absent from one's station
 - b. **Forward the call to a number to be entered:** allows forwarding all calls to a station to be defined, used in particular if one is absent from one's station. If the user presses on the button or function key, he is asked to enter the number of the station to which he would like to forward the call
 - c. **Transfer a call to:** allows transferring a call to a predefined station during the call
 - d. **Transfer the call to a number to be entered:** allows call transfer to a station to be defined during the call. If the user presses on the button or function key, he is asked to enter the number of the station to which he would like to forward the call. As for calls, this icon allows simply finding the SIP number of the station to which one would like to forward or transfer.
- **Headset:** allow to switch to the headset with one key.

!_Depending upon the type of station, certain functions are not available.

- a. **Keep the HP ringing on the station:** allow the switch to the headset and at the same time keep the speaker and the ringing on the station
 - b. **Keep only ringing on the station:** allow the switch to the headset and at the same time keep only the ringing on the station
 - c. **Don't keep HP ringing on the station:** allow switching all to the headset.
- **Other functions:** Depending upon the type of station, certain functions are not available.
 - a. **Do not disturb:** all calls to the station are rejected,
 - b. **Secret:** deactivates the microphone,
 - c. **Hold:** places the current call on hold,
 - d. **Redial:** calls that last number called,
 - e. **Talk/Listen:** the user can talk when he presses the button; if not, he can only wait for his corresponding caller (generally used with simplex communication mode),
 - f. **Answer call:** If the auto-answer is disabled on a door panel, this function can be used to take the incoming call.
 - g. **Hangup:** terminate the current call

- h. **Lock keyboard:** locks the keyboard (and the TFT screen if available) for a configurable period of time so that it can be cleaned up without performing any actions.
- i. **Enable/disable the noise auto detection for the current profile.**
- j.

Profile's directory configuration

The phone book is only accessible for equipments equipped with a display.
The function keys are only available for equipments equipped with one or several buttons.

When configuring the telephone book, it is possible to choose between:

- Defining the numbers that cannot be called from this equipment ("black list"),
- Defining the numbers that can be called from this equipment ("white list").

In both cases, just switch a number from the available numbers 'list on the left to the selected numbers 'list on the right.

Remark: It is possible to select multiple numbers by selecting the first number, maintaining the shift key pressed and clicking on the last number to select.

Noise detection configuration

This feature allows the station to detect noise in its environment with a minimum level and for a minimum duration. This detection generates an event used in relations to perform specific actions.

- **Activate Noise detection:** activate or not the noise detection.
- **Sensibility:** adjusts the sensitivity of the microphone to capture sound. This sensitivity is adjustable from 1 (low sensitivity corresponding to the detection of a noise > 90dB) to 22 (high sensitivity corresponding to the detection of a noise < 40dB). The following table gives the sensitivity to noise level correspondence :

Sensibility	Noise level detected
1	> 90 dB
8	80 dB
16	70 dB
20	60 dB
22	< 40 dB

- **Delay (1/10 of sec):** only report noise detected for the given duration. Noises occurring for a shorter time are not reported.

The phone users

The phone users are the users that can log on a desktop equipment to be able to use it. (Some equipment can be locked by default, or specific users need specific functions that are only accessible through their own profile).

This page can be used to select among the users created using the page "[The phone users](#)" in the general configuration, so that they can log on the current equipment. For each user, it is necessary to select the local phone profile that will be used by the user.

Phone users list

The list shows the phone users configured for this equipment.

Phone users selection

This page permits the selection of the phone users that will be able to log on this equipment. For each user, it is necessary to select the phone profile that will be used by this user while logged on the equipment.

Codes / Local Access

This functionality is not available on all the equipments.

This page is used to select the access codes configured globally using the page "[Code / Local Access](#)" so that they can be used on the current equipment.

A link is available on the page to go to the codes configuration global page.

XELLIP SERVERS

The SIP configuration of the XELLIP servers is centralized in the Configuration section of the material tree (branch "**Configuration → XELLIP Servers**" – see "[XELLIP servers](#)").

Consequently, the local configuration pages on the XELLIP servers are only used to manage the equipment itself.

Server Management

This page provides the operations regarding the management of the XELLIP server inside CASTELServer.

Management Configuration Commands

Equipment Management

M7-P0-I0

Equipment Informations

IP Configuration :	192.168.48.125
Poste or Module Type :	Serveur Max

Configuration Management

Transfer Configuration from PC to Hardware :

Remove Equipment

The presented information includes the server address as well as its type.

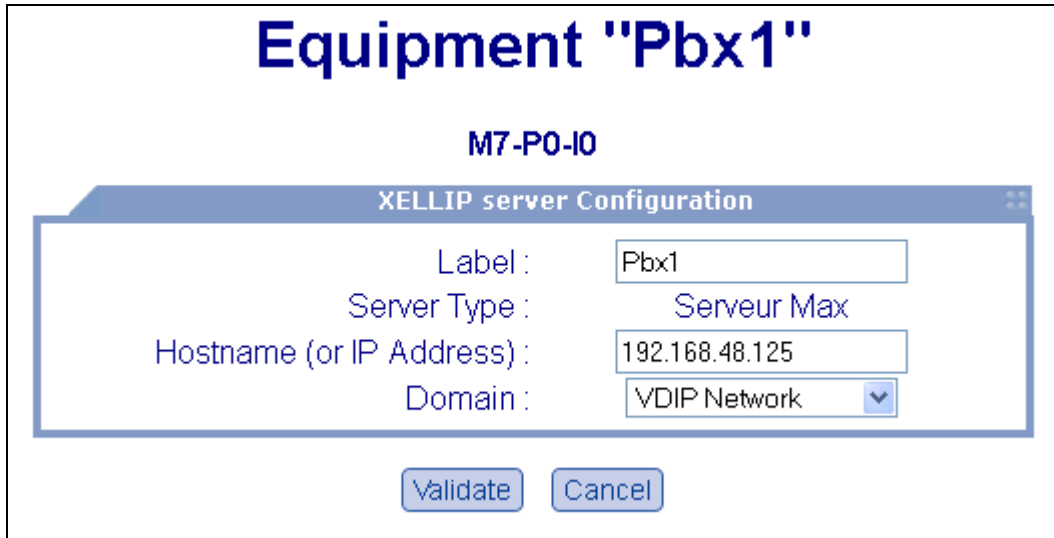
The possible actions are:

- The transfer of the configuration towards the server,
- The deletion of the server from CASTELServer.

Server Configuration

The display page shows the version of the server and proposes the button to modify the server's configuration.

The configuration page looks as follows:



Equipment "Pbx1"

M7-P0-I0

XELLIP server Configuration

Label : Pbx1

Server Type : Serveur Max

Hostname (or IP Address) : 192.168.48.125

Domain : VDIP Network

Validate Cancel

The configurable elements are:


- The server's label. **Warning:** this label will become the hostname of the server.
- The type of server. The value can be changed only if the server is not connected, or if the type coming from the connected material does not match the type configured in CASTELServeur. Otherwise, the type is fixed.
- The IP address of the server,
- The domain in which the server will be located.

RS485 DEVICES MANAGEMENT

VDIP device parameters

- This page displays the information of a VDIP device, and provides a way to modify its configuration (Depending on the user's rights, the button "Configure" will be available, or not).
- The interfaces available on the device (whether they are configured or not) are displayed in a table with their state indicated by the colour of the label ("red" in case of error, "green" otherwise.). It is possible to click on a device to visualise its configuration.

Configuration
Behaviour
Commands



Periph "Entree Production"

M3-P7-I0

Peripheral State

State : Normal









Peripheral Configuration



Peripheral Information :

Number : 7
Hardware Version : 1.0
Software Version : 1.3
Peripheral Type : VDlect
Degraded mode enabled: No
Serial Number : daefefcfabefef

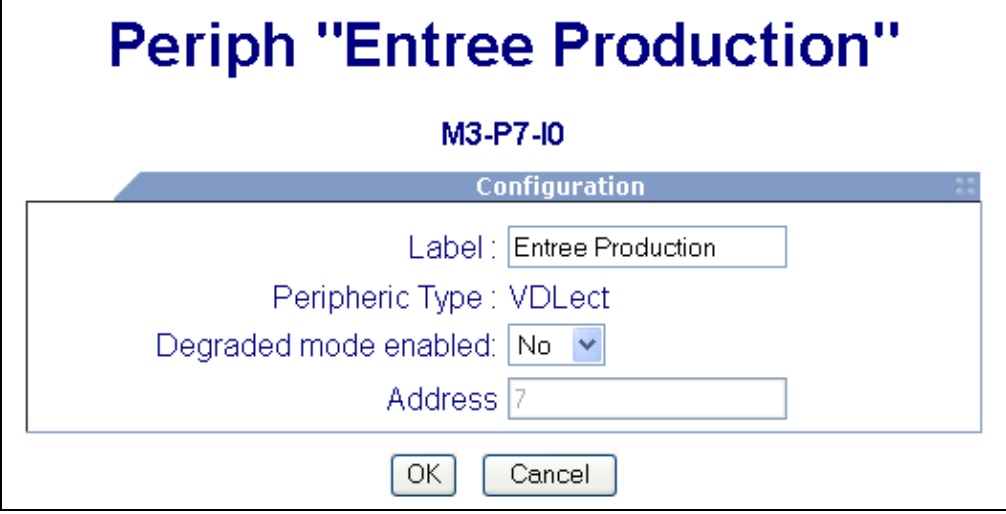
Configure

Interfaces

Label	N°	Type :			
<u>Lect Entree ZAPB</u>	1	Reader			
<u>Input1</u>	2	Input			
<u>ZAPB-E3</u>	3	Input			
<u>Gache entree ZAPB</u>	4	Output			

- ❑ A user with the configuration rights can also:
 - Configure a free interface either:
 - By using the icon ,
 - By cloning an interface of the same type already configured (input for input, output for output, etc...).
 - Remove the configuration of an interface using the icon .
- ❑ If the peripheral is a VDMP, this page will display a table listing the different channels as well as the audio interface associated to each channel, if any. And if the peripheral is a VDTel used with a VDMP, the channel associated to the VDTel will also be displayed once configured (See [VDMP Management](#) for more information).
- This page is accessible by clicking on a peripheral device in the material tree, then by clicking on the "Configuration" tab (if it is not already selected), or by selecting a device in the list on the module's configuration page.

VDIP device Configuration



Periph "Entree Production"

M3-P7-I0

Configuration

Label :

Peripheral Type : VDLect

Degraded mode enabled:

Address

- ❑ The following information can be configured for a peripheral device:
 - The label (30 characters maximum),
 - If the device supports a reader, then a "degraded mode" can be enabled: in case of communication failure between the VDUC and the device (at the RS485 bus level), this mode implies that the output existing on the device will be activated when a card with a good site code is presented to the reader.
- This page is accessible by using the button "Configure" on the page [Peripheral device parameters](#).

Aperio lock parameters

- This page displays the information of an Aperio lock, and provides a way to modify its configuration (Depending on the user's rights, the button "Configure" will be available, or not).
- The interfaces available on the lock are displayed in a table with their state indicated by the colour of the label ("red" in case of error, "green" otherwise.). It is possible to click on a device to visualise its configuration.

Lock "Entrée technique"

M27-P131-IO (1803008)

Lock State

State Not Visible

Lock Parameter

Lock Information

Lock Type :	E100
Number :	3 (Bus 2)

Interfaces

Label	N°	Type
Lecteur (Entrée technique)	1	Reader

- This page is accessible by clicking on an Aperio lock in the material tree, then by clicking on the "Configuration" tab (if it is not already selected), or by selecting a lock on a bus configuration page.

Aperio lock configuration

The screenshot shows a configuration window titled "Lock 'Entrée technique'" with the identifier "M27-P131-10 (1803008)". Inside the window, there is a "Configuration" section with a table containing the following data:

Configuration	
Label :	Entrée technique
Lock Type :	E100
Number :	3 (Bus 2)

At the bottom of the configuration section, there are two buttons: "Validate" and "Cancel".

- ❑ Only the name of the lock can be configured.
- ❑ The "work" parameters of the lock (opening time for example) are configured in the Aperio Access Points of the CASTELAcces application.
- This page is accessible by clicking the "configure" button on the page [Aperio lock parameters](#).

INTERFACES MANAGEMENT

The interfaces can be material interfaces or logical interfaces.

The interfaces are as much as possible always managed in the same way regardless of the equipment to which they belong, or by which they are managed (VDUC, VDUC Evo or XELLIP).

But this was not possible for the audio and video interfaces which have specific options for the VDUCs and the XELLIP equipments.

This is not the case either for reader interfaces that have different settings between Aperio locks and VDIP devices.

Other interfaces are only available on the VDUCs: the phone interface (provided by the VDTL2 equipment) and the serial interface.

Reader Parameters

Interface "12_2_Lect"


M1-P2-I1

Interface State

State : Unblocked

Reader Parameters

Configuration	
Type of badge :	Castel
Secret Code Input Time(seconds)	10
Code keyboard connected :	No

- ❑ This page displays the information of a reader and provides a way to access the page to modify its configuration (depending on the user's rights, the button  will be available or not).
- ❑ The information provided includes the following elements:
 - The current state of the reader (with the same colour scheme than the material tree),
 - The type of reader connected to the interface (chosen among the possible ones): it is important that the type chosen corresponds to the reader connected to the interface so that the communication works between the two.

- The "secret code input time" is used when the user has to enter a digit code after presenting a card to the reader: it specifies how much time the user will have to compose the code,
 - If a keyboard is connected to this interface. The keyboard requires specific treatment.
- This page is accessible by clicking on a reader in the material tree, then by clicking on the tab « Configuration » (if not already selected), or by selecting a reader on the parameters view of a peripheral device.

Reader Configuration

Interface "12_2_Lect"

M1-P2-I1

Reader Configuration

Configuration

Label : 12_2_Lect

Type of badge : Castel

Secret Code Input Time(seconds) : 10

Code keyboard connected : ☐

OK Cancel



- The following parameters can be configured on a reader:
- The label (30 characters maximum),
 - The type of reader connected to the interface (See [Table of correspondence between the card types and type of badge in CASTELServeur](#)),
 - The value of the secret code input time (which as described in the parameters, specify the time during which the user should enter the code after presenting his card)
 - If a keyboard is connected to this interface. The keyboard requires specific treatment.
- This page is accessible by clicking on the button  on the page [Reader Parameters](#).

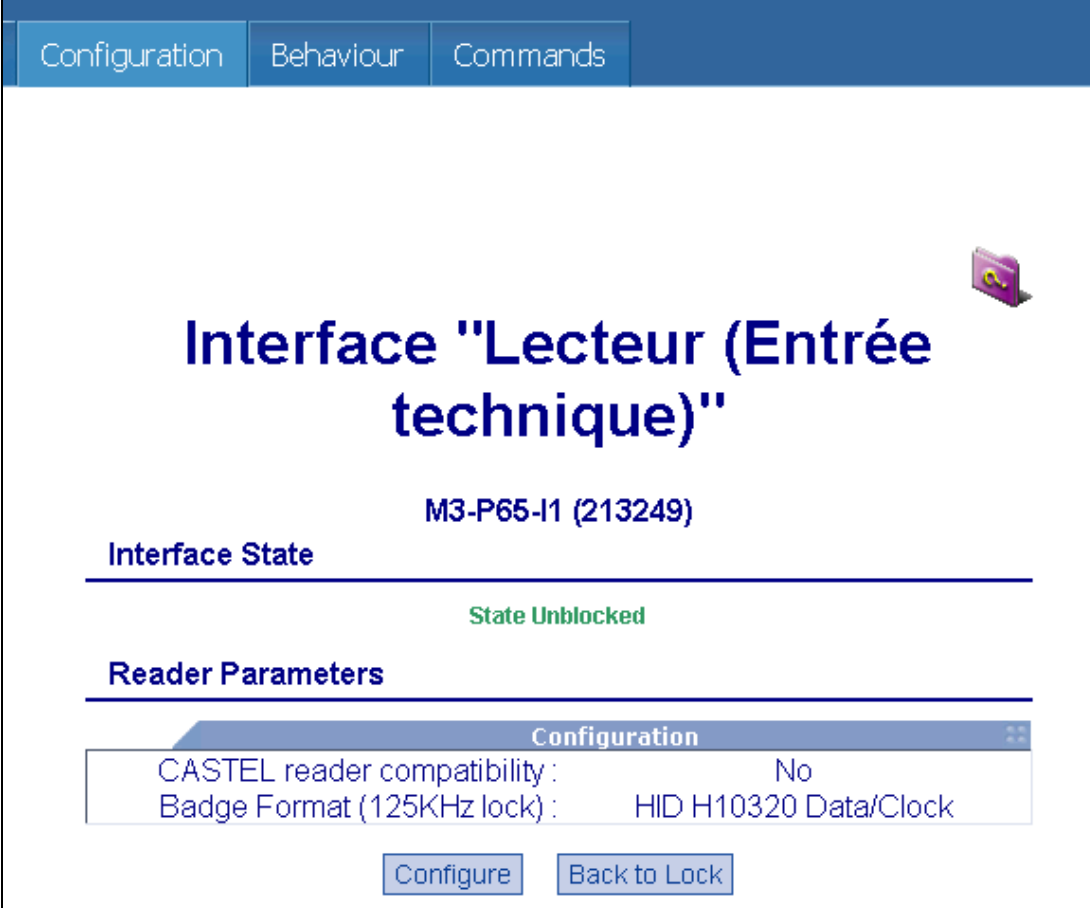
Table of correspondence between the card types and type of badge in CASTELServeur

Ref	Card Type	Reader	Brand	Techno	Type of badge in CASTELServeur
XXXXXXXX	BM1	LM2	Motorola	Magnétique ISO2	Castel
910.0021	BP1				Castel
910.0022	BP2	LP1-LP2-LP3	Deister	125Khz	Castel
910.0032	BP3				Castel
910.0026	BP4	LP1-LP2-LP3	Deister	125Khz	Castel
910.0070	BR01	LR01	Prastel	Radio 433Mhz	Depending on reader : Prastel Wiegand 30bits or Castel Wiegand 26bits or Castel Wiegand 32bits
910.0023	TR3	LL2-LL3	Balogh	Hyper X 2.45Ghz	Depending on reader : Wiegand: Castel Wiegand 26bits Data Clock: Castel
910.0024	TR4	LL2-LL3	Balogh	Hyper X 2.45Ghz	Depending on reader : Wiegand: Castel Wiegand 26bits Data Clock: Castel
910.0039	BP11	LP11-LP12	Indala	125Khz	Motorola/Indala
910.0040	BP12	LP11-LP12	Indala	125Khz	Motorola/Indala
910.0053	BP13 Lo		Indala	125Khz low energy	Motorola/Indala
910.0041	BP13 HI		Indala	125Khz high energie	Motorola/Indala
910.0002	BP21	LP20-LP22	STID	125Khz	Castel
910.0058	BP31	LP31-LP33-LP34	HID	125Khz	HID H10301 wiegand26bits8_16
910.0066	BPT35	LP31-LP33-	HID	125Khz	HID H10301 wiegand26bits8_16

		LP34			
910.0075	BP34-	LP31-LP33-LP34	HID	125Khz	HID H10301 wiegand26bits8_16
910.0068	BP33	LP31-LP33-LP34	HID	125Khz + magnét track	HID H10301 wiegand26bits8_16
910.0060	BPC31	LP31-LP33-LP34	HID	125Khz	HID H10301 wiegand26bits8_16
910.0059	BPM32				HID : Mifare SN Wiegand 32 bit
910.0076	BPM33	LP31-LP32	HID	125KHz et 13.56Mhz	HID : Mifare SN Wiegand 32 bit
910.0078	BPM34	LP32	HID	13.56Mhz	HID : Mifare SN Wiegand 32 bit
910.0061	BPI33	LP32	HID	Iclass 13.56Mhz	HID H10301 wiegand26bits8_16
910.0074	BPI35	LP32	HID	Iclass 13.56Mhz	HID H10301 wiegand26bits8_16
910.0065	BPT34	LP32	HID	Iclass 13.56Mhz	HID H10301 wiegand26bits8_16
910.0082	BP34/C	LP31/C	Castel	125Khz	Castel Wiegand 26bits
910.0083	BPC31/C	LP31/C	Castel	125Khz	Castel Wiegand 26bits
910.0086	BPM32/C	LP32/C	Castel	Mifare 13.56MHz	Castel Wiegand 34bits
910.0079	BPM34/C	LP32/C	Castel	Mifare 13.56MHz	Castel Wiegand 34bits
910.0094	BPM35/C		Castel		?
	BPT36/C		Castel	Mifare 13.56MHz	Castel Wiegand 34bits
910.0091	BR01/C	LR01/C	Castel	Radio 868Mhz	Castel Wiegand 37bits
		LP32/C	Castel	Mifare 13.56MHz	Castel Wiegand 34bits

Aperio reader parameters

- This page allows you to view the information of the reader interface Aperio lock and access the configuration page (depending on user rights, if the user does not have the right configuration, the button  will not be available).



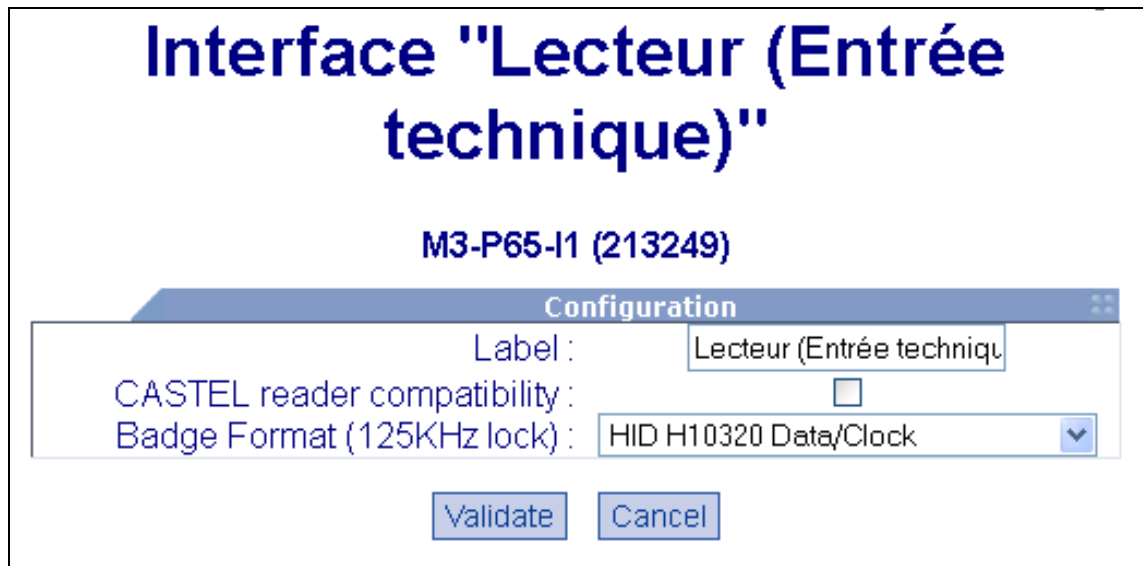
The screenshot shows a web interface for the 'Interface "Lecteur (Entrée technique)". At the top, there are three tabs: 'Configuration' (selected), 'Behaviour', and 'Commands'. The main heading is 'Interface "Lecteur (Entrée technique)"' with a small icon of a lock. Below the heading, the identifier 'M3-P65-I1 (213249)' is displayed. The 'Interface State' section shows 'State Unblocked' in green. The 'Reader Parameters' section contains a table with two rows: 'CASTEL reader compatibility' set to 'No' and 'Badge Format (125KHz lock)' set to 'HID H10320 Data/Clock'. At the bottom of the parameters section are two buttons: 'Configure' and 'Back to Lock'.

Configuration	
CASTEL reader compatibility :	No
Badge Format (125KHz lock) :	HID H10320 Data/Clock


- The information presented is as follows:
 - The current status of the reader (with the same principles of color and text as in the material tree),
 - If compatibility with readers CASTEL is enabled or not. This compatibility means that the badge numbers processed by the system will be limited to 4 bytes (32bits) - because this is the maximum size handled by the CASTEL readers. This option allows for mixed systems using the same badge with Aperio locks and CASTEL readers.
 - The badge format. This parameter is only used with 125KHz Aperio locks.

- This page is accessible by clicking on an Aperio reader in the material tree, then clicking the "Configuration" tab (if it is not already selected), or by selecting the reader when viewing an Aperio lock.


Aperio reader configuration



- ❑ The following parameters can be configured on a reader:
 - The label (30 characters maximum),
 - CASTEL reader compatibility. This compatibility means that the badge numbers processed by the system will be limited to 4 bytes (32bits) - because that is the maximum size handled by the CASTEL readers. This option allows for mixed systems using the same badge with Aperio locks and readers CASTEL.
 - The badge Format. This parameter is only used with 125 KHz Aperio locks (it is ignored for other technology locks).

- This page is accessible by clicking  from the page [Aperio reader parameters](#).

Input Parameters

- ❑ This page displays the information regarding an input interface and provides a way to access its configuration page (depending on the user's rights, the button  will be available or not).

Interface "BP"

M1-P1-I2

Interface State

State : Inactive

Input Parameters

Configuration ..

Active State :	Closed Contact
Imped input management :	No
Delay to commit (tenth of seconds) :	1
Input type :	State

Call to make when pressing the button

Action	Element	Parameters
Establish call	au (M1-P1-I6)	<ul style="list-style-type: none"> 1: sip:161@192.168.49.161 Duration (1/10 sec) : 0

- The information includes the following parameters:
 - The current state of the interface (using the same colour scheme as the material tree),
 - The active state of the input (Open contact or closed contact),
 - If the interface should use its impedant capability (when available),
 - The interval of time the interface should stay in the same state before it is considered a real change of state (in tenth of seconds),
 - The type of usage of the input: either as a "State input" or as a counter,
 - If the type of usage is counter:
 - A flag indicating if the counter should be reset to 0 after each event,
 - The increase step used for the counter (for example, if this value is set to 5, 5 impulsions will be required on the input for the counter to change value (and for example go from 15 to 20 in one event). If you do not know what to make of this, leave it to the default value: 1.

- If input is a **push button** on a door panel (between 1 and 3 per door panel depending on the type) and only in this case, then the section "**Call to make when pressing the button**" is available to quickly configure a call.
 The relation corresponding to the configuration of this call is added to the list of "call relations" visible in the behaviour of the audio interface used to make the call.

- This page is accessible by clicking on an input in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting an input on the parameters view of a peripheral device.

Interface "Compteur"

M3-P1-I4

Interface State

State : 0

Input Parameters

Configuration

Active State:	Closed Contact
Imped input management :	No
Delay to commit (tenth of seconds):	1
Input type:	Counter
Counter reset:	No
Threshold:(1-65000):	1

Input Configuration

Interface "Compteur"

M3-P1-I4

Input Configuration

Configuration

Label :

Active State:

Imped input management : ☐


Delay to commit (tenth of seconds):

Input type:

Threshold:(1-65000):

- ❑ This page is used to configure the different parameters of an input interface as described in the previous paragraph: "[Input Parameters](#)".

Remark: The impedant capability is not available on all the input interfaces. Please refer to the specific documentation of each peripheral device to know which inputs provide this service.

- This page is accessible by clicking on the button  from the page [Input Parameters](#).

Output Parameters

Interface "S2"

M3-P14-I2


Interface State

State : Deactivated

Output Parameters

Configuration	
Contact Type:	Normally Open
Output Type:	Blinking
Time lag to enabling : (1/10 of seconds)	0
Time of enabling : (1/10 of seconds)	2
Time of release : (1/10 of seconds)	2
Release delay : (1/10 of seconds)	0
Maximum service time : (1/10 of seconds)	50
Minimum service time : (1/10 of seconds)	10

Configure
Back To Peripheral

- ❑ This page displays the information regarding an output interface and provides a way to access its configuration page (depending on the user's rights, the button  will be available or not).
- ❑ The information includes the following elements:
 - The current state of the interface (using the same colour scheme as the material tree),
 - The contact type of the output (Normally closed or normally open),
 - The type of the output (Monostable, bistable, blinking or telerruptor),
 - Depending on the type, up to 6 duration times determine the behaviour of the output (values in tenth of seconds):
 - Delay to enabling (All types),
 - Time of activation (Bistable and telerruptor),

- Time of deactivation (Bistable and teleruptor),
- Delay to deactivation (All types),
- Maximum service time (Monostable and blinking)
- Minimum service time (Bistable, Teleruptor and Blinking).

Remark: Please consult the VDUC documentation for the explanation of each of these values.

- This page is accessible by clicking on an output in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting an output on the parameters view of a peripheral device.

Output Configuration

Interface "S2"

M3-P14-I2

Output Configuration

Configuration

Label : S2

Contact Type: Normally Open

Output Type: Blinking

Time lag to enabling : 0
(1/10 of seconds)

Time of enabling : 2
(1/10 of seconds)

Time of release : 2
(1/10 of seconds)


Release delay : 0
(1/10 of seconds)

Maximum service time : 50
(1/10 of seconds)

Minimum service time : 10
(1/10 of seconds)

OK Cancel

- ❑ This page is used to modify the parameters of an output interface described in the previous paragraph: "[Output Parameters](#)".

- This page is accessible by clicking on the button  from the page [Output Parameters](#).

VDUC Audio Interface Parameters

Interface "au"

M8-P1-I6

Interface State

State No Communication

Audio Configuration

Configuration

Speaker Volume (%) :	10
Microphone Volume (%) :	0
Com Type :	Duplex
Communication Timeout (sec.) :	360

Tonalities

Call Forwarding

Sound File acheminement_sab.raw / Speaker Volume (%) 50

Occupation

Sound File ? / Speaker Volume (%) 50

Tone Timeout (sec.) 10

Call Return

Sound File ? / Speaker Volume (%) 50

Wait

Sound File ? / Speaker Volume (%) 50

Associated Commands

Configure

Back To Peripheric

- ❑ This page displays the information regarding an audio interface on a VDUc and provides a way to access its configuration page (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information includes the following elements:
 - The current state of the interface (using the same colour scheme as the material tree),
 - The HP volume,
 - The microphone volume,
 - The type of communication,
 - The communication timeout (to prevent the communication from staying open indefinitely if it is not terminated from VDIPMedia),
 - The audio file and HP volume to use for each tonality:
 - Call forwarding,
 - Occupation,

- Call return,
- On hold.

Remark: The occupation tonality is used when no one is reachable or willing to take the call. The timeout configured for this tonality indicates for how long it is emitted.

- The different commands useable from the VDIPMedia application (see the VDIPMedia documentation) or from an SIP agent configurable from the button "associated commands".
- **Remark:** If a VDMP peripheral device is declared on the VDUC, a channel of the VDMP will be attributed to each audio interface and will appear as the last line of the section « General Configuration » (See [VDMP Management](#) for more details).
- This page is accessible by clicking on an audio interface in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting an audio interface on the parameters view of a peripheral device.

VDUC Audio Interface Configuration

- This page is used to modify the parameters of a VDUC audio interface described in the previous paragraph: "[VDUC Audio Interface Parameters](#)".
- Regarding the configuration of the actions, refer to the paragraph "[Actions Definition](#)".

Interface "au"

M8-P1-I6

Configuration

Label :	au
Speaker Volume (%) :	10
Microphone Volume (%) :	0
Com Type :	Duplex ▼
Communication Timeout (sec.) :	360

Tonalities

Call Forwarding

Sound File : acheminement_sab.raw ▼

Speaker Volume (%) (0-100) : 50

Occupation

Sound File : ▼

Speaker Volume (%) (0-100) : 50

Tone Timeout (sec.) : 10

Call Return

Sound File : ▼

Speaker Volume (%) (0-100) : 50

Wait

Sound File : ▼

Speaker Volume (%) (0-100) : 50

Validate
Cancel

- This page is accessible by clicking on the button Configure from the page [Audio Interface Parameters](#).

XELLIP Audio Interface Parameters

- ❑ This page can be used to visualise the information of an audio interface of XELLIP equipment and to access its configuration page.

Interface "AudioPosteChef"

M3-P255-I3

Interface State

State No Communication

Audio Configuration

Configuration	
Speaker Volume (%) :	46
Microphone DB Correction :	0
Communication Timeout (sec.) :	300
Call Timeout (sec.) :	120

Audio Treatments	
Com Type :	Duplex
Acoustic Echo Cancellation (AEC) :	Average
Noise Reduction (NR) :	Average 2

Secondary Connectors	
Use the external mic :	No
Keep using the station HP :	Yes

- The beginning of the page presents the following information :
 - The **current state** of the interface (with the same colour principles than in the material tree),
 - **HP volume in %**: define the output sound level on the active speaker (on the station or on the headset)
 - **Sound level of the Microphone in dB**: define the sound level of the microphone input in decibel. This setting is available only for the station equipped with an audio treatment card.
 - **The communication timeout**: avoids that a communication lasts forever,
 - The **call timeout**: avoids that a call attempt last forever, and that the called equipments ring forever,

- **Audio processing: (enable only for station equipped with an audio treatment card):**
 - **Communication type**: selection between the full and half duplex mode.
 - **Communication priority**: when the communication is in half-duplex mode it is also possible to define the level of the priority of the communication.
 - **Acoustic echo cancellation (AEC)**: this setting allows you to make communication more enjoyable by eliminating the acoustic echo. It may be necessary to change this level according to the acoustic environment. By default, items are shipped with a factory level corresponding to the acoustic coupling HP / Micro of the station but it is possible to modify it and apply one of the following:
 - **Factory value**: is the level of AEC calculated for this type of position in the factory,
 - **Minimum**: coupling HP / Microphone very easy and low HP levels.
 - **Low**: low coupling HP / Microphone (for example XED station),

- **Middle:** standard coupling HP / Microphone (for example XEDES station),
 - **High:** difficult coupling HP / Microphone (for example XEP station),
 - **Maximum:** very strong coupling HP / Microphone (for example XEMED station).
- **Noise reduction:** this parameter provides a way to improve the quality of the communication by eliminating the sounds from the station environment. For some more complicated configurations it is possible to enter the value in dB directly. Pre-defined settings are available depending on the station environment:
- **None:** there is no treatment for noise,
 - **Low (3):** noise reduction of 3 dB for very little environmental disturbance.
 - **Intermediate 1 (10):** Noise reduction of 10 dB for an office type environment (PC fan, Air conditioning ...).
 - **Intermediate 2 (16):** Noise reduction of 16 dB for an environment disturbed by the noise of an engine, wind ...
 - **Strong (30):** noise reduction of 30 dB for a highly disturbed. Warning, this level can degrade the voice quality.

Tonalities	
<u>Music played when starting</u>	Sound File start1.wav / Speaker Volume (%) 5
<u>Ring for incoming call</u>	Sound File ring1.wav / Speaker Volume (%) 5
<u>Communication establish</u>	Sound File com_establish_voice_fr.wav / Speaker Volume (%) 5
<u>Occupation</u>	Sound File busy.wav / Speaker Volume (%) 5 Tone Timeout (sec.) 3
<u>Call Return</u>	Sound File ringback.wav / Speaker Volume (%) 5
<u>Wait</u>	Sound File wait_jazz.wav / Speaker Volume (%) 5
<u>Signal for double call</u>	Sound File double_call1.wav / Speaker Volume (%) 5
<u>Sound played when the output is commanded</u>	Sound File door_open_voice_fr.wav / Speaker Volume (%) 5
<u>Sound played when access is refused</u>	Sound File ? / Speaker Volume (%) 0
<u>Ring played while waiting for code confirmation</u>	Sound File ? / Speaker Volume (%) 0
Associated Commands	
<input type="button" value="Configure"/> <input type="button" value="Back To Peripheric"/>	

This screen proposes the configuration of the tones used by the equipment and to adjust their volume:

- **Music played when starting:** sound played when the station starts
- **Ring associated with incoming calls:** sound issued when a call is made to the station
- **Ring-back tone:** sound one can hear while the called station is ringing,
- **Call delivery:** the sound emitted by the station when it tries to find the called station,
- **Communication establish:** the sound emitted when the communication is establish
- **Busy:** sound issued by the station if this is already being used in order to report to the person calling who is trying to call,
- **Hold:** sound issued by the station if the call or the communication under way is being put on hold,
- **Signal for double call:** sound issued when the station is already in communication and a new call is received,

- **Sound played when the output is commanded:** sound issued when the output relay of the station is commanded (say "door opened"),
- **Sound played when access is refused:** sound issued when a card reader is available and when an invalid card is presented,
- **Ring played while waiting for code confirmation:** If a keyboard is available in parallel with a card reader to perform "code confirmation", this sound is played after presenting the card while waiting for the confirmation code.

NB: The busy tone is emitted by the equipment when the called number is not reachable or not available (busy).

- The commands useable by the correspondent while in communication (using DTMFs) can be configured using the button « Associated commands ».
- This page is accessible by selecting a XELLIP audio interface in the material tree or from the Local interfaces page and clicking on the audio interface.

XELLIP audio interface configuration

- This page is used to configure the different parameters of a XELLIP audio interface described in the previous paragraph: « [XELLIP Audio Interface Parameters](#) ».
- Regarding the configuration of the actions of the associated commands, refer to the paragraph "[Actions Definition](#)".

Interface "AudioPosteChef"

M3-P255-I3

Configuration

Label :	AudioPosteChef
Speaker Volume (%) :	46
Microphone DB Correction :	0 ▼
Communication Timeout (sec.) :	300
Call Timeout (sec.) :	120

Audio Treatments


Com Type :	Duplex ▼
Acoustic Echo Cancellation (AEC) :	Average ▼
Noise Reduction (NR) :	Average 2 (16) ▼

Secondary Connectors

Use the external mic :	<input type="checkbox"/>
Keep using the station HP :	<input checked="" type="checkbox"/>

Then comes the tones configuration part.

Tonalities

Import an audio file : 

Music played when starting
Sound File :
Speaker Volume (%) (0-100) :

Ring for incoming call
Sound File :
Speaker Volume (%) (0-100) :

Communication establish
Sound File :
Speaker Volume (%) (0-100) :

Occupation
Sound File :
Speaker Volume (%) (0-100) :
Tone Timeout (sec.) :

Call Return
Sound File :
Speaker Volume (%) (0-100) :

Wait
Sound File :
Speaker Volume (%) (0-100) :

Signal for double call
Sound File :
Speaker Volume (%) (0-100) :

Sound played when the output is commanded
Sound File :
Speaker Volume (%) (0-100) :

Sound played when access is refused
Sound File :
Speaker Volume (%) (0-100) :

Ring played while waiting for code confirmation
Sound File :
Speaker Volume (%) (0-100) :

Validate

Cancel

The arrow link described as "import an audio file" can be used to import an audio file into the resources, and then use it as a tone.

- This page is accessible using the button « Configure » on the XELLIP audio interface page.

Commands associated to an audio interface

Interface "Audio Portier"

M8-P15-I6

Open the door

Action	Element	Parameters
Activate output	Gâche Portier vducdavid1 (M8-P15-I5)	◆ State : Start

Actions for command 2

Action	Element	Parameters
No action to display.		

Actions for command 3

Action	Element	Parameters
No action to display.		

- ❑ This page is used to visualise the commands configured among the 3 possible for each audio interface. These commands are then displayed in VDIPMedia when in communication with a VDUC.
- ❑ It is possible to configure each command and to remove an existing command.

Remarks:

- These commands are now stored as relations. They will therefore appear among the other relations (See "[Listing the relation by material element](#)").
- When a command is activated by phone (through the **VDTel** interface), only one command is available, and this command must **absolutely** be the first one (command 1).
- When a **VDTel2** is used to establish a communication with a phone, the commands can be activated respectively by typing "1*", "2*" or "3*" on the handset.

Configure an audio interface's associated command

Interface "Audio Portier"

M8-P15-I6

Actions for command 1

Action	Element	Parameters
Activate output	Gâche Portier vduc david1 (M8-P15-I5)	♦ State : Start <div style="float: right;"> </div>

Label for command 1

Label

- ❑ This page is used to configure the actions of a command activated from VDIPMedia. It is then possible to add or remove actions.
- ❑ The label will be displayed as is to the user of VDIPMedia, so mind the text.
- This page is accessible by clicking on an audio interface in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), then by clicking the button "associated commands".

VDUC Video Interface Parameters

Interface "v"

M4-P1-I6

Interface State

State No Communication

Video Configuration

Configuration

Image Size :	QCIF
Images per seconds :	12.5
Contrast :	10
Luminosity :	10
Video Input(s) :	Differential Input
Differential Input Adaptation :	0.0

Switchs for the differential Input

0 : <input type="checkbox"/>	1 : <input type="checkbox"/>	2 : <input type="checkbox"/>
3 : <input type="checkbox"/>	4 : <input type="checkbox"/>	5 : <input type="checkbox"/>

The following switch activates the generation of JPEG image from the camera input (SIP only). If this is activated, no video stream is available, only the image will be generated. (See the configuration of the video interface on the VDUc to get the image URL).

Video as JPEG image : False

Configure
Back To Peripheric

- ❑ This page displays the information regarding a VDUc video interface and provides a way to access its configuration page (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information includes the following elements:
 - The current state of the interface (using the same colour scheme as the material tree),
 - The size of the image (only QCIF supported for the moment),
 - The number of images per seconds (between 2 and 12.5),
 - The video input(s) (Coaxial, differential or both),
 - If Differential input is selected, some settings to optimise the video quality (especially if there is a long cable) are available:
 - 6 switches activating different filters to adapt the signal on long distances,
 - The amplification level (in DB).

- If both video inputs are configured, an extra parameter is used to define which input will be active when establishing the communication with VDIPMedia. **[Remark:** the possibility of using both video inputs is only useable with VDIPMedia, not in SIP].
 - If the video should only generate JPEG images. The images can then be retrieved via a specific URL (provided on the VDUC web page). This option only works with SIP communications.
- This page is accessible by clicking on a video interface in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting a video interface on the parameters view of a peripheral device.

VDUC Video interface configuration

Interface "v"

M4-P1-I6

Configuration

Label :

Image Size :

Images per seconds :

Contrast :

Luminosity :

Video Input(s) :

Differential Input Adaptation :

Switchs for the differential Input

0 : <input type="checkbox"/>	1 : <input type="checkbox"/>	2 : <input type="checkbox"/>
3 : <input type="checkbox"/>	4 : <input type="checkbox"/>	5 : <input type="checkbox"/>

Initial video input :


The following switch activates the generation of JPEG image from the camera input (SIP only). If this is activated, no video stream is available, only the image will be generated. (See the configuration of the video interface on the VDUC to get the image URL).

Video as JPEG image : ☐

- This page is used to modify the parameters of a video interface described in the previous paragraph: "[Video Interface Parameters](#)".


- In the case where a differential input is chosen, use the following table to determine how to configure the switches and the amplification level depending on the distance (between 0 and 1000 m).

Distance	0	1	2	3	4	5	Amplification
0 m	Off	Off	Off	Off	Off	Off	+0.0db
100m	Off	Off	Off	Off	Off	Off	+0.0db
200m	Off	Off	Off	Off	Off	Off	+3.0db
300m	On	Off	Off	Off	Off	Off	+3.0db
400m	On	On	Off	Off	Off	Off	+7.5db
500m	Off	On	Off	Off	Off	Off	+7.5db
600m	On	On	On	Off	Off	Off	+7.5db
700m	On	Off	Off	On	Off	Off	+7.5db
800m	On	On	Off	On	Off	Off	+7.5db
900m	On	Off	On	On	Off	Off	+7.5db
1000m	On	On	On	On	On	Off	+7.5db

- This page is accessible by clicking on the button  from the page [Video Interface Parameters](#).

XELLIP Video Interface Parameters

Configuration
Behaviour
Commands



Interface "Vidéo"

M3-P255-I4

Interface State

State No Communication

Video Configuration

Configuration	
Activate bandwidth configuration :	Yes
Download Bandwidth (Kbits/s) :	500
Upload Bandwidth (Kbits/s) :	500
Image Size :	Automatic
Disable encoding :	No
Disable decoding :	No

Configure
Back To Peripheric

- ❑ This page displays the information regarding a XELLIP video interface and provides a way to access its configuration page (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information includes the following elements:
 - Enable the bandwidth management: this option allows modifying certain parameters in order to obtain an optimal image as a function of the network's characteristics. If the option is active, the following settings become accessible:
 - **Download bandwidth:** 0 Kbits/second by default (set automatically to the maximum) and can be set up to 2000 Kbits/sec
 - **Upload bandwidth:** 0 Kbits/second by default (set automatically to the maximum) and can be set up to 2000 Kbits/sec
 - **Size of the image:** automatic by default
 - **Disable encoding:** not checked by default
 - **Disable decoding:** not checked by default (option available only for stations with TFT screens)
- This page is accessible by clicking on a XELLIP video interface in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting a XELLIP video interface in the local interfaces of a XELLIP device.

XELLIP Video interface configuration

Interface "Vidéo"

M3-P255-I4

Configuration

Label :	Vidéo
Activate bandwidth configuration :	<input checked="" type="checkbox"/>
Download Bandwidth (Kbits/s) :	500
Upload Bandwidth (Kbits/s) :	500
Image Size :	Automatic
Disable encoding :	<input type="checkbox"/>
Disable decoding :	<input type="checkbox"/>

- ❑ This page is used to modify the parameters of a XELLIP video interface described in the previous paragraph: ["XELLIP Video Interface Parameters"](#).

Phone Line interface Parameters

Interface "L1"

M2-P13-I1

Interface State

State : Idle

LinePhone Parameters

Configuration

Volume to line	50
Volume to VDUC	50
Volume to door panel	10
Associated VDMP channel : VDMP1 (M2-P15-I0) - Channel 2	

- ❑ This page displays the information of a phone line interface and provides a way to access the page to modify its configuration (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information provided includes the following elements:
 - The current state of the interface (with the same colour scheme than the material tree),
 - The volume to the phone,
 - The volume to the VDUC (unused for the moment),
 - The volume to the door panel,
 - The associated channel if a VDMP is configured and a channel has been associated to this interface.
- This page is accessible by clicking on a phone line interface in the material tree, then by clicking on the tab « Configuration » (if not already selected), or by selecting a phone line on the parameters view of a peripheral device.

Phone Line interface Configuration

Interface "L1"

M2-P13-I1

Phone Line Configuration

Configuration

Label :	<input type="text" value="L1"/>
Volume to line	<input type="text" value="50"/>
Volume to VDUC	<input type="text" value="50"/>
Volume to door panel	<input type="text" value="10"/>
Associated VDMP channel :	<input type="text" value="VDMP1 (M2-P15-I0) - Channel 2"/> ▼

- ❑ This page is used to modify the parameters of a phone line interface described in the previous paragraph: "[Phone Line interface Parameters](#)".
- This page is accessible by clicking on the button "Configure" on the page [Phone Line interface Parameters](#).

Software Interface Parameters

Interface "Flag door opened correctly"

M1-P31-I2

Interface State

State : Inactive

Software Interface Parameters

Configuration

Initial State :	Inactive state
Interface Type :	State

- ❑ This page displays the information regarding a software interface and provides a way to access its configuration page (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information includes the following elements:

- The current state of the interface (using the same colour scheme as the material tree),
 - The initial state of the interface (Active state or Inactive state),
 - The type of usage of the input: either as a "State input" or as a counter,
- This page is accessible by clicking on a software interface in the material tree, then by clicking on the « Configuration » tab (if it is not already selected), or by selecting a software interface on the parameters view of a peripheral device.

Software Interface Configuration

- This page is used to modify the parameters of a software interface described in the previous paragraph: "[Software Interface Parameters](#)".

Interface "Flag door opened correctly"

M1-P31-I2

Input Configuration

Configuration

Label : Flag door opened corre

Initial State : Inactive state ▼

Input type: State ▼

OK Cancel

- This page is accessible by clicking on the button "Configure" from the page [Software Interface Configuration](#).

Display Interface

This interface corresponds to the Touch Screens and graphical screens used in the "XEDESK" XELLIP equipments.

The configuration options are :

- **Inactivity time before putting on standby:** period at the end of which, if no operation has taken place, this is put on standby
- **Logo:** allows selecting the image to display-in general the company's logo. It is possible to add or take away an image on the menu "Data" - > "File manager". **This option is only available for stations equipped with a graphic display screen.**
- **Text displayed:** enter a message to be displayed on the home page only for the station equipped with a display.

- **Hide the sip numbers:** when this option is activated, the user can only see the name of the contacts but not the sip numbers. This option interacts on the display of the screens pages of the directory, the history calls and all the calls (incoming, outgoing and waiting calls) on the equipment.

Welcome text format

For the station equipped with a TFT display, some tags can be inserted in the message to improve the visual rendering. A tag is always composed of 2 elements, one placed before the text to format, a second just after.

Example : `<tag>My text to format</tag>`

2 categories of tag exist:

The simple tags

These tags format the text in bold, italic or other in a simple way. The full list of existing tags follows:

Tag	Action
<code></code>	Bold text
<code><big></code>	Increase slightly the size of the text
<code><i></code>	Text in italic
<code><s></code>	Strike the text
<code><sub></code>	Put the text in subscript
<code><sup></code>	Put the text in superscript
<code><small></code>	Decrease the size of the text
<code><tt></code>	Put the text in teletype
<code><u></code>	Underline the text

The advanced tag ``

This tag can be used to set the style of the text by setting the size, the color or the style in a more advanced way. This tag can be used as the others ones, but accept the attributes to change the style of the text.

Example : `My Text`

Please refer to an online help on the tag `` and the possible style attributes it can support.

Keyboard Interface

This interface supports the following parameters:

- **Default functionality:** define the default working mode for the keyboard in the idle state when the user presses a numeric key (0-9). The possible values are:
 1. Automatic: if an access code is defined in the list, any numeric key pressed displays the screen to enter a key code. In the opposite case (no key code defined) any key pressed displays the screen to compose a call number.
 2. Perform a call: any numeric key pressed force to display the screen to compose a call number even if a key code has been defined. To display the screen to compose a key code (when the function is available) press the key #
 3. Enter a code: any numeric key pressed force to display the screen to enter a key code. To display the screen to compose a call number (when the function is available) press the key *,
- **Lock duration:** Defines the duration of the keyboard lock when using the action "Lock keyboard".

EQUIPMENT CONNECTIONS

Module "151"

M3-P0-I0

Connected Users

Login	User Rights
No User Connected	

Connected VDUCs

IP address	Id	Name
No VDUC Connected		

- ❑ This page is used to display the people and material connected to the current equipment. It includes a table with the list of people currently logged-in on the web pages. A second table displays the list of other equipment currently connected on the current one. These connections between equipments are required to realise the relations involving events and actions on different equipments, or to properly handle anti-passback and anti-timeback areas when the readers are on different equipments. (See the CASTELAcces documentation for more details on the anti-passback and anti-timeback areas).
- ❑ These lists are not updated automatically and the « Refresh » button can be used to update them.
- ❑ In the event of several CASTELServeur simultaneously connected on the same equipment, (which is not normal for the proper behaviour of the solution), both servers are displayed in red in the list to emphasise the problem.
- This page is accessible by clicking the tabulation « Connections » when VDUC or XELLIP equipment is selected in the material tree.

SERIAL PORT MANAGEMENT

The serial port of the VDUC can now be used to send simple messages to any equipment connected to it.

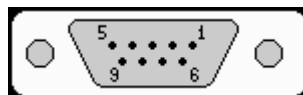
The messages to transmit are configured as byte arrays expressed in hexadecimal format. They can then be used in a specific action that will try to send them on the serial port. It is also possible to configure an optional reply that should be sent by the equipment on reception of the message sent.

The VocSerial transmitter from the ADETEC Company is managed in a specific way by the VDUC. This equipment always sends standard replies to the request but requires a regular polling to know the status of the transmission requested to the transmitter (either "No transmission", "Calling", "successful" or "failure").

The serial port is visible and configurable in CASTELServeur by adding a VDSerial software peripheral device, which handles only 1 serial interface. (Only one VDSerial can be configured on a VDUC).

Important remarks:

- ❑ By default, the VDUC is configured to start a terminal on the serial port. To be able to use the serial port to communicate with external equipment, it is necessary to « free » the serial port by stopping the console. This can be done from the web page of the VDUC (options->Serial Port). The change of this parameter will force the VDUC to restart to apply the modification. (See the VDUC documentation for details)
- ❑ The connection between the VDUC and the ADETEC VocSerial requires a specific cable. Since pin 4 and 6 (DTR and DSR) are not cabled on the VDUC, these two pins must be connected on the VocSerial side of the cable to make the VocSerial believe that it is linked to equipment and accept incoming messages.



- ❑ If "VocSerial" is selected in the configuration page of the serial port, then the serial port will appear in « **Material Error** » in the network tree until the VocSerial is connected to the VDUC, and will appear as « **Normal** » when connected (and switch on to be able to answer to the polling).

Serial Port parameters

Interface "S1"

M10-P31-I1

Interface State

State : Normal

Serial Port Configuration

Configuration ⌵

Label :	S1
Speed :	115200
Data bits :	8
Parity :	None
Stop bits :	1
Flux control :	None
Connected Device :	Serial equipment

Serial Messages

- ❑ This page displays the information of the serial interface and provides a way to access its configuration page (depending on the user's rights, the button "Configure" will be available or not).
- ❑ The information displayed is the following:
 - The current state of the interface (with messages and colours used in the material tree),
 - The standard parameters of a serial port: speed, data bits, Parity, number of stop bits, flux control.
 - The type of material connected to the serial port: either a generic serial equipment or a VocSerial transmitter from the ADETEC Company.
- ❑ This page also provides the way to manage the serial messages configured for transmission over the serial port.
- This page is accessible by clicking on the serial port in the material tree, and then clicking the « Configuration » tab (if not already selected), or by selecting the serial port interface on the configuration page of the VDSerial.

Serial Port Configuration

Interface "S1"

M10-P31-I1

Configuration

Label :

Speed :

Data bits :

Parity :

Stop bits :

Flux control :

Connected Device :

- This page is used to enter all the parameters detailed in the previous page: "[Serial Port parameters](#)".
- This page is accessible by hitting the "Configure" button on the serial interface visualisation page.

Serial Messages Display

Configured Serial Messages

Requests

Label	Format			
Cesa - alarme 190 on	Hexadecimal			
Config Modem GSM	Ascii			
Envoi alerte GSM	Ascii			
Tel	Hexadecimal			
Vocal - 150 - on	Hexadecimal			

Replies

Label	Format
No reply configured	

- ❑ This page is used to display the list of configured messages – requests and responses. (For the VocSerial, only the requests are useful).
- ❑ Depending on the rights granted to the user, it is possible to add, modify and remove the serial messages.
- This page is accessible by clicking on the serial port in the material tree or on the serial port interface in the VDSerial configuration page. And then by clicking on the "View" button in the Serial messages section of the page.

Visualisation/Configuration of a message

Message Cesa - alarme 190 on

Configuration

Label : Cesa - alarme 190 on

Message Type : Request

Message Data Format : Hexadecimal

Message Data :

16 09 20 82 04 00 01 90 00 00 01

Configure Remove Back to list

- ❑ This page is used to visualise a configured serial message (name, type, data format and message data).
- ❑ Depending on the user's rights, it is possible to add, modify or remove a serial message.
- ❑ The supported data formats are hexadecimal and ASCII. For the VocSerial, hexadecimal will be required for the messages. With ASCII messages, the control characters '\r', '\n', etc. can be entered as such in the message data (« \r », « \n », etc.): they will be interpreted before being sent on the serial port.
And if an ASCII message contains a « carriage return » when entered by the user, it will be replaced by « \r\n » in the message before being saved.
- ❑ Starting with **version 1.7.2 of the VDUC**, it is possible to display the value of a counter in a serial message. This is only possible with the messages

defined in ASCII, not the one defined in HEXA. The counter is indicated by adding the %<GID of the counter> in the serial message. The GID is calculated using the formula:

$$\text{GID} = \text{"VDUC Id"} * 65536 + \text{"Peripheral Id"} * 256 + \text{"Interface Id"}$$

Example: the GID of counter M2-P3-I5 is:

$$2 * 65536 + 3 * 256 + 5 = 131845$$

The serial message can then be defined as follows:

Cars in the car park: %131845

Only counters situated on the same VDUC as the serial interface can be visualised in serial messages.

- ❑ Starting with **version 1.7.4 of the VDUC**, it is possible to add a character in a message using its ASCII code. Special ASCII characters such as ETX or STX can therefore be sent onto the serial port in ASCII messages. These characters are added in the following way: "#<ASCII code>".

Example: #48 will send the character '0' on the serial port.
 #49#50 will send the characters '12' on the serial port.

- This page is accessible by clicking on the serial port in the material tree or on the serial interface in the VDSerial page, and then clicking on the « View » button in the "Serial messages" section.

Action/Command on the serial port

The only action available for the serial port is used to exchange messages via the serial port. This action is usable to make manual commands ("Commands" tab on the serial interface) or to be used as actions in the relations.

The action looks as follows:

Define Command

Affected Element

Selected Elements :
S1 (M10-P31-I1)

Action

Action Serial Messages

Action parameters

	Request	Reply
Exchange 1	Cesa - alarme 190 on	
Exchange 2		
Exchange 3		
Exchange 4		
Exchange 5		
Exchange 6		
Exchange 7		
Exchange 8		
Exchange 9		
Exchange 10		

Perform

This action defines a list of messages (at least one request) to send on the serial port with optionally a reply to expect.

When "Serial equipment" is selected in the configuration of the serial port, if a reply is configured for a request and if this reply is not received in the next three seconds, then the transmission will be considered as failed (and a corresponding event will be generated).

If "VocSerial" is configured, the replies from the equipment are standard and handled directly by the VDUC. Any reply set in the action will be ignored.

The transmissions are treated sequentially and independently from one another. If a transmission fails, the other messages of the action will be sent anyway.

VDMP MANAGEMENT

This new version of VDIP includes the possibility for a VDUC to manage several « Door Panels » simultaneously, all of them connected to the VDUC.

This is achieved by using a VDMP Peripheral device between the VDUC and the different "Door Panels" it needs to manage. See the documentation of the VDMP peripheral for the wiring explanations.

VDMP Peripheral

The VDMP is used to switch the audio and video channels between the VDUC and a « Door Panel » when a communication is established. The fact that the VDUC only embeds one audio/video channel implies that only one "Door Panel" at a time can be in communication.

The VDMP parameters page looks as follows:

Periph "VDMP1"

M2-P15-I0

Peripheral State

State : Normal

Peripheral Configuration

⌵ ⌵

Peripheral Information :

Number :	15
Hardware Version :	1.0
Software Version :	1.0
Peripheral Type :	VDMP
Serial Number :	daefefcfabefef

Channel Allocation

Channel	Interface
1	au-(M2-P1-I5)
2	VDTel-(M2-P4-I0)
3	au-(M2-P2-I6)
4	

This page includes the usual configuration information available for a peripheral and also includes a table indicating which interface uses which VDMP channel. This information is displayed here for ease of use but can only be modified from the audio interface or VDTel peripheral using the VDMP channels. (See next paragraph.)

Audio Channels Configuration

The attribution of the **VDMP** channels to the different audio interfaces is done via the audio configuration page. If a **VDMP** peripheral is configured, it is then possible to choose which channel of the **VDMP** is associated to the audio interface. The configured channel then appears in the "General" section of the audio configuration.

Audio Configuration	
General :	
Speaker Volume (%) :	50
Micro Volume (%) :	50
Com Type :	Duplex
Communication Timeout (sec.):	120
Associated VDMP channel :	VDMP1 (M2-P15-I0) - Channel 1

The configuration of the **VDMP** channel will be used by the VDUc to switch the audio and video streams to the proper « Door Panel » when a communication starts.

In the event when a **VDTel** or **VDTel2** peripheral is used to make communications between a "Door Panel" and a PSTN phone, and when multiple "Door Panels" are connected to a VDUc through a **VDMP**, then the **VDTel(X)** must also be connected to the **VDMP** peripheral (See the documentations of the VDTel and VDMP for more details.).

In this case, it is necessary to configure the VDMP channel associated to the VDTel:

- ❑ With a **VDTel**, this can be done from the configuration page of the VDTel:

Peripheral Configuration	
Peripheral Information :	
Number :	4
Hardware Version :	
Software Version :	
Peripheral Type :	VDTel
Serial Number :	
Associated VDMP channel :	VDMP1 (M2-P15-I0) - Channel 2

- ❑ With a **VDTel2**, this can be done from the configuration page of the phone line interface associated:

<u>Configuration</u>	
Phone line Volume	50
VDUC Volume	50
Door Panel Volume	10
Associated VDMP channel : VDMP1 - (Channel 2)	

Remark:

The **VDUC can only manage one communication at a time**, whether established or not. If a communication is established with a "Door Panel", and if someone presses a call button on another "Door Panel" connected on the same VDUC, this action will not start a call (even differed) and will be ignored. It will be necessary to wait for the end of the current communication before being able to make another call.

BEHAVIOUR

The "Behaviour" page regroups the different configuration elements used to define the behaviour of the considered element.

The possible configuration objects defining the behaviour are:

- The "**Relations**" which associates a "trigger" (logical or scheduled) to a list of actions to perform when this trigger is realised.
- The "**Macro-relations**" which regroups different relations to define a complete functionality that can be easily duplicated and reused.
- The "**functions**" (or macro-actions) used to group different actions into different states in order to factorise sequences of actions.

When an element is selected in the material tree (VDIP Network, domain, VDUC, peripheral device or interface), only the compartment objects using the selected element – or one of its "*children*"- will appear in the page.

See the page "[Relations management](#)" for the documentation on the configuration and usage of the relations.

See the page "[Macro-relations management](#)" for the documentation on the configuration and usage of the macro-relations.

See the page "[The Functions](#)" for the details on the functions.

RELATIONS MANAGEMENT

The relations determine the behaviour of the VDUC by associating conditions (or trigger events) to a list of actions to perform. The trigger events can be of three different types:

- ❑ The logical conditions combine several logical states of interfaces to build a logical equation,
- ❑ The numerical conditions combine counter inputs to build a numerical operation which is compared to a fix value,
- ❑ The Scheduled condition defines a time and period, with different priority levels, when the actions should be executed.

Different logical events exist for each type of material elements (VDUC, peripheral devices and interfaces).

In the same way, different actions can be realised on each type of material elements.







Relations Visualisation

Listing the relation by material element

Interface "S1"

M3-P14-I1




Add Relation

Label ▼	Type	
<u>10 S1 force actif</u>	<u>S</u>	 
<u>19 fin force</u>	<u>S</u>	 
<u>9 S1 force inactif</u>	<u>S</u>	 

Add Relation

- ❑ The relations can be visualised for each material element to which they apply.
- ❑ For each material element, it is possible to view the relations for whom at least one action will be executed on the material element considered, or on one of the elements it owns.

For example, The relations displayed when a VDUC is selected includes all the relations present on this VDUC, whether they act on VDUC itself, on one of its peripheral devices or on any of the interfaces configured.

- ❑ The columns give the label of the relation, its type ("L" for Logical, "N" for numerical and "S" for scheduled) as well as the icons of the available actions.
- ❑ Depending on the user rights, the following actions are available:
 - Visualise the details of a relation by clicking on its name or on the icon ,
 - Add a relation by using the button ,
 - Remove a relation with the icon .
- ❑ The relations can be added from the visualisation page, whatever is the selected element in the material tree: there is no limitation or association between the element selected and the relation itself – only the content of the relation determines from where it will be visible.
- To access this page, you have to choose the considered element in the material tree, and then click on the "Behaviour" tab.

Detailed visualisation of a relation

Relation "WA3"

Relation State

No Error on Relation

Logical Trigger




Op.	Event	Element	Parameters
	Authorized card reading	Lect Entree ZAPB (M3-P7-I1)	


Actions List

Action	Element	Parameters
Activate output	Gache entree ZAPB (M3-P7-I4)	• State : Start

Remove
Modify
Back to list

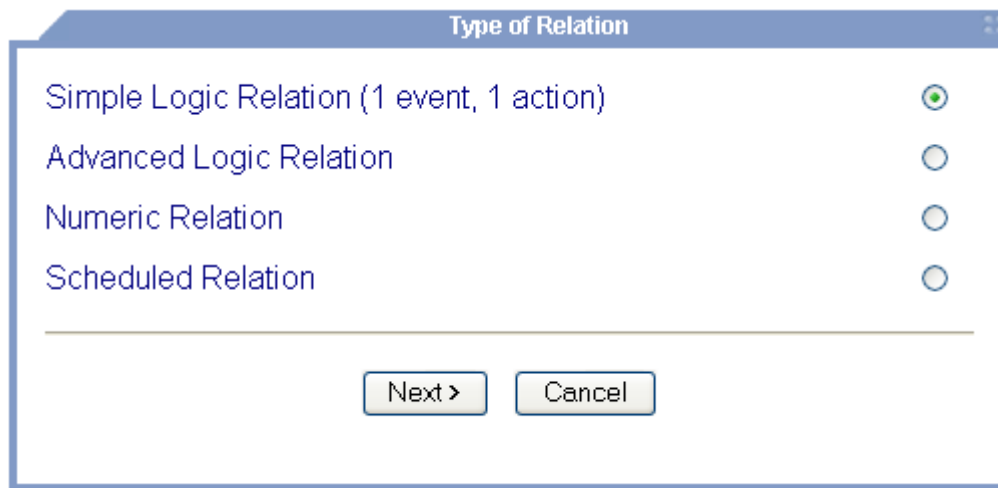
- ❑ The detailed visualisation of a relation displays the information on the trigger event used, whatever it is.
- ❑ In the same way, the different actions executed are also visible with all their parameters.
- ❑ Depending on the user rights, it is possible from this page:

- To remove a relation: ,
- To modify a relation: ,
- To go back to the relation list: .

- To access this page, click on the label of a relation, or on the  icon from the page ["Listing the relation by material element"](#).

Adding/Modifying a Relation

Choosing the type of relation



- ❑ When adding a new relation, the first step consists in choosing the type of trigger event: logical, numerical or scheduled. The choice "Simple Logic Relation (1 event, 1 action)" is only intended to simplify the creation of a simple logical relation: the result will be a normal logical relation that it will be possible to modify to add more events or actions if necessary.
- ❑ Once the type has been chosen, it is possible to define the relation itself via the next step ["Definition/edition of a relation"](#).

Definition/edition of a relation

- ❑ This page is used to define or modify a relation. Whatever the type of the relation, the structure of the page is always the same:
 - The definition of the label at the top,
 - Then the definition of the condition,
 - Then the actions to perform at the bottom.
- ❑ In the case of a simple relation, only one logical event and action can and must be configured.

Simple Logic Relation (1 event, 1 action)

Label

Label

Event

Op.	Event	Element	Parameters
	Logic state	BP (M3-P1-I2)	• Kind of input state change : Change to active state

Action

Actions List

Action	Element	Parameters
Activate output	sortie (M3-P1-I5)	• State : Start

- In the case of an advanced logical condition, it is possible to combine several logical conditions with optional timing configurations.

Logical Trigger

Op.	Event	Element	Parameters	
	Authorized card reading	Lect (M3-P1-I1)		<div style="border: 1px solid black; padding: 5px; width: fit-content;">First logical condition</div>
AND	Output Force state	S1 (M3-P14-I1)	• Kind of output change : All activated state changes	
Delay (seconds) = 0 / Duration (seconds) = 10				

AND

Op.	Event	Element	Parameters	
	Authorized card reading	Lect Entree ZAPB (M3-P7-I1)		<div style="border: 1px solid black; padding: 5px; width: fit-content;">Second logical condition</div>




In the case of an advanced logical relation, it is possible to define several logical conditions. These different conditions are associated together with logical depends and must therefore all be true for the actions to be executed.

These logical conditions are themselves composed of 1 or more logical events combined with logical operators (NOT, AND, OR, NAND, NOR, XOR).





It is also possible to associate temporal parameters to the logical conditions to define their period of validity:

- The delay (in seconds) indicates after how long this condition becomes valid,
- The duration (in seconds) indicates how long the condition is considered valid (this is only meaningful for the events that normally do not have a duration in time, such as the event "Authorised card reading" which is instantaneous.)

For example, the logical condition defined previously can be read in the following way:

- If an "Authorised card reading" happens on reader (M1-P1-I1) AND if the output (M1-P15-I1) is activated, then the condition remains "TRUE" for 10 seconds,
 - AND if during these 10 seconds, another "Authorised badge reading" happens on reader (M1-P7-I1), then the logical trigger becomes "TRUE" and the actions are performed.
- Click on the icon  to remove a logical condition and on the icon  to modify it.
 - The button  is used to add a new logical condition to the trigger.
- In the case of a numerical trigger, it is possible to define a numerical condition to satisfy to perform the actions.



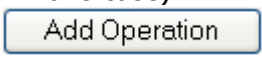

Operation

Counter Input		
	Compteur (M3-P1-I4)	 
+	Input1 (M3-P7-I2)	 

Add Operation



Condition


Comparator	Value	
>	10	




- Click on icon  to remove an input from the list and on icon  to modify it (only the operator in this case).
- The button  is used to add a new input to the operation.
- Click on icon  at the condition level to modify it.

- In the case of scheduled trigger, it is possible to define different schedules with different priorities.

Time Trigger





Priority	Definition	
Permanent	08:00:00 01/01 - 31/12 - Mon Tue Wed Thu Fri Sat Sun	 






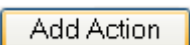
- Click on icon  to remove a schedule and on icon  to modify it.
- The button  is used to add a schedule to the list.

- Whatever the type of the trigger, it is always required to define the actions to perform when the trigger is realised.

Actions List

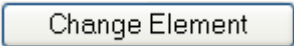
Action	Element	Parameters	
Activate output	S1 (M3-P14-I1)	• State : Start	 
Activate output	S2 (M3-P14-I2)	• State : Start	 



- Click on icon  to remove an action from the list and on icon  to modify the action's parameters.
- The button  is used to add a new action to the list.

- The button "Cancel" is used to stop the creation or the modification of a relation, whereas the button "Validate" is used to save the relation defined. If the VDUCs affected by this relation are connected to **CASTELServeur** at the time of the validation, the relation will be send to the VDUCs simultaneously, and will become effective immediately.
- This page is accessible either by adding a relation (after the choice of the type of relation) or by modifying a relation (on the page [Detailed visualisation of a relation](#), click on the button "Modify").

Simple logical event definition

- This page is used to define a simple logical event on a material interface.
- The button  is used to choose the material element on which the event is defined.

- ❑ Once the interface is chosen, the combo box presents the list of possible events available on the selected interface, and the parameters associated with each event.
- This page is accessible on addition of a relation by selecting the type "Simple Logical Relation (1 event, 1action)".

Event Definition

Operator Choice

Op. AND
 NOT ☐

Affected Element

Label : BP
 Element Id : M3-P1-I2
 Type : Non Impedant state input

Event

Event Logic state

Event parameters

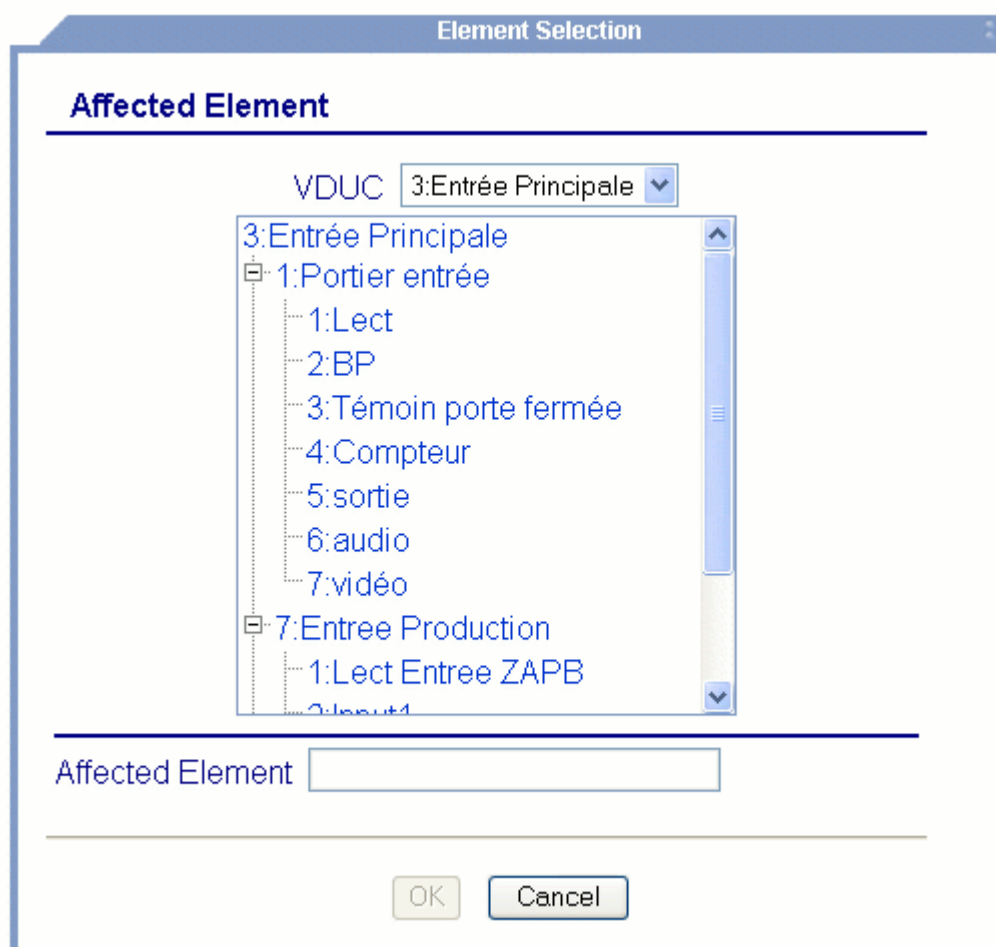
Kind of input state change Any change

- ❑ The events supported by the system are specific to the different type of material element (VDUC, peripheral device and interfaces), as well as to the different type of interfaces.
- ❑ Events available for the VDUCs:
 - **Connection/Disconnection of a user:** created when a user connects on the VDUC's web server. The event "Disconnected" is only created when the user clicks on button "Disconnect", or after a session timeout. (See the VDUC documentation for more details).
 - **IP network availability:** created when the IP network becomes visible or invisible at the module level. It can also be used to indicate if another VDUC becomes visible or invisible on the network.
- ❑ Event available on the peripheral devices:

- **Peripheral device visibility:** event created when a peripheral device becomes visible or invisible on the RS485 bus.
- Events available on the readers:
 - **Authorised Card reading:** event created when an authorised card is presented on a reader.
 - **Authorised Card reading of a profile:** event created when an authorised card is presented on a reader for a specific profile.
 - **Refused card reading:** event created when a card is presented on an unauthorised reader.
 - **Lost card reading:** event created when a lost card is presented on a reader.
 - Blocking/Unblocking of a reader: event created when a reader is blocked or unblocked (using the action "Inhibition of a reader": see paragraph "[Actions Definition](#)").
- Events available on all inputs:
 - **Input Inhibition:** created when the inhibition of an input is started or stopped.
 - **Forced Input Inhibition:** created when the forced inhibition of an input is started or stopped.
- Events available on impendant inputs:
 - **Appearance/Disappearance of impendant defect:** generated when the defect appears or disappears on an impendant input.
- Events available on logical (or state) inputs:
 - **Change of state:** created when the input's state changes: from Active state to Inactive state or the contrary.
 - **Alarm "Door Forced"** and **Alarm "Door opened for too long"**: created when configured and when the conditions are realised.
- Events available on counter inputs:
 - Change of value: created when the counter value changes, either physically triggered, or as a result of an internal action (see action "**Change counter value**").
- Events available on outputs:
 - **Change of state:** created when an output is activated or deactivated.
 - **Change of force state:** created when the output is forced in the active state, the inactive state or if the forcing state is stopped.
- Events available on audio interfaces:
 - **Start/End of call:** created when an audio call is started or stopped between an audio interface and a VDIPMedia application.
 - **Start/End of communication:** created when an audio communication starts or stops.



Material element selection

- ❑ This page is used to choose a material element. It is used when created logical or numerical events, or when creating actions.
- ❑ The selectable elements are in blue, while the other element is greyed out.



Advanced logical event definition

Logical Trigger

Op.	Event	Element	Parameters	
	Authorized card reading	Lect (M3-P1-I1)		
AND	State change	S1 (M3-P14-I1)	<ul style="list-style-type: none"> Kind of output change : To activated state 	
Delay (seconds) = 0 / Duration (seconds) = 10				



AND

Op.	Event	Element	Parameters	
	Authorized card reading	Lect Entree ZAPB (M3-P7-I1)		

Add Condition

- The definition of advanced logical events requires the definition of the different logical condition(s) it includes. The definition or the modification of a logical condition is made via the following screen:

Logic Condition Definition

Op.	Event	Element	Parameters	
	Authorized card reading	Lect (M3-P1-I1)		
AND	State change	S1 (M3-P14-I1)	<ul style="list-style-type: none"> Kind of output change : To activated state 	




Add Event

Duration and Delay Definition

Delay (seconds)

Duration (seconds)





OK Cancel

- Click on icon  to remove the event from the list and on icon  to modify it.
- The button  is used to add a simple logical event to the list. (See paragraph "[Simple logical event definition](#)").
- The delay and duration values can be used to define temporal behaviours of the condition (put 0 to ignore).

Numerical event definition

- A numerical condition is defined by adding and subtracting the values of inputs configured as “counter”, then by comparing the result of this operation to a given constant.

Operation

Counter Input		
	Compteur (M3-P1-I4)	 
+	Input1 (M3-P7-I2)	 

Add Operation


Condition

Comparator	Value	
>	10	

- The definition of an operation implies the choice of the required counter inputs, and the required operators (+ or -) to build the operation.

Numeric Event Definition

Operator Choice


Operator + 


Counter Input Selection

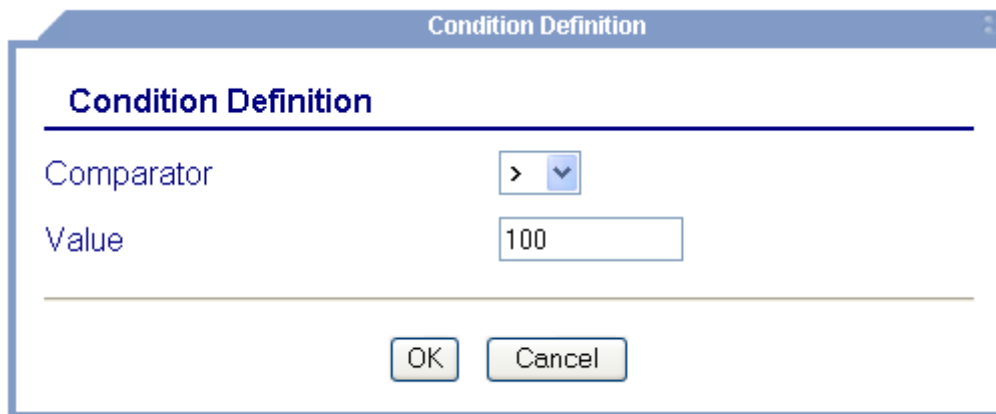
No Element Defined

Change Element

OK Cancel

Click on button  to reach the page of element selection seen previously.

- The definition of the condition includes the choice of the comparator and the input of the constant value to compare. Click on icon  in the condition area to modify it.



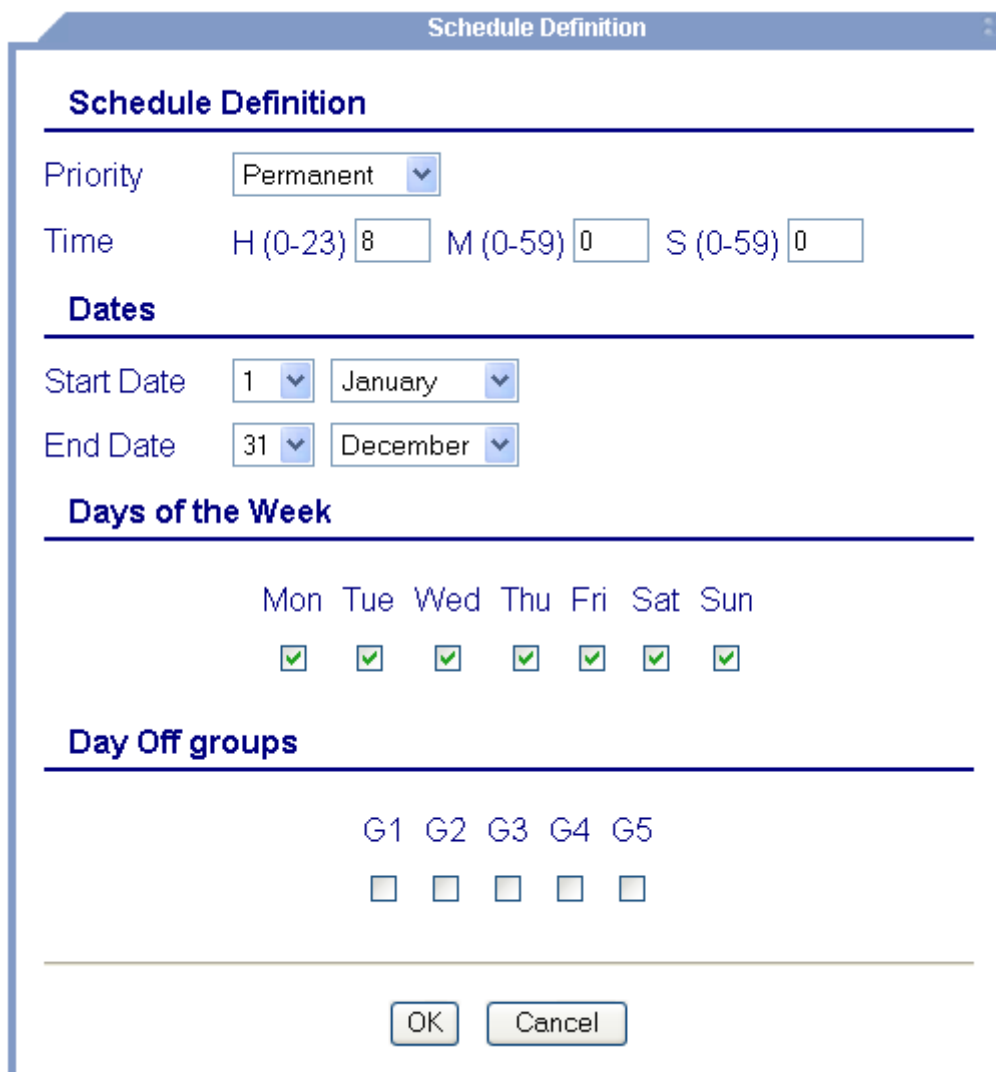
Condition Definition

Comparator

Value

Scheduled relation definition

- This page is used to define or modify scheduled relations.



Schedule Definition

Priority

Time H (0-23) M (0-59) S (0-59)

Dates

Start Date

End Date

Days of the Week

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Day Off groups

G1	G2	G3	G4	G5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Scheduled relations are used to perform a list of actions at a precise time of day, some days of the week on a specific period.

- ❑ The parameters to give include:
 - The time of the day when the actions should be performed,
 - The period of the year during which the schedule should be applied. (Remark: the start date must precede the end date. To build a period from 01/10 to 31/03, 2 schedules are required: from 01/10 to 31/12 and from 01/01 to 31/03),
 - The days of the week during which it applies,
 - The day-Off groups that apply to this schedule. This schedule will not be considered for each of the day off belonging to the selected groups. For the definition of the day off groups, see the paragraph [Legal holidays configuration](#).
- ❑ The scheduled conditions also include a priority. There are three levels of priority:
 - Permanent: it is the lowest priority,
 - Exceptional: middle priority,
 - Derogation: highest priority used only for précised dates (day/month/year).

Priority usage example:

- With the following priorities:
 - Permanent: 08:00:00 01/01 - 31/12 – Mon Tue Wed Thu Fri,
 - Exceptional: 09:00:00 01/07-02-09 – Mon Tue Wed Thu Fri,

The actions will be performed at 8 am from 01/01 to 30/06 every working day and from 03/09 to 31/12 every working day.

Actions Definition

- ❑ The actions are operations that can be executed on the material elements of the system (VDUC, peripheral devices and interfaces). They are used to define the behaviour associated with the audio command (the operation performed when the action icon is used on VDIPMedia: see "[Audio Interface Configuration](#)") to define the action part of the relations and to send specific punctual commands to the VDUCs (see paragraph "[Perform an action command](#)").
- ❑ There are different actions available for each type of interfaces.
- ❑ For some of the actions, temporisations are configurable:
 - The "duration" indicates how long an action should be performed: if not given (or 0), the action continues indefinitely.
 - The delay indicates after how long the action should start. If 0, the action is performed immediately.
 - For some of the actions, it is possible to define both values (and say for example that after 5 seconds, an input will be disabled for 10 seconds).
 - These values are given in tenths of seconds.
- ❑ Actions available on the VDUCs:
 - **LEDs activation:** is used to define the working mode of the LEDs of the VDUC and its peripheral devices. 3 targets are available (Test LED, inputs and

- outputs) as well as 3 working modes (on, off, Blinking and autonomous, which means managed by the periphs).
 - **VDUC 'inputs inhibition**: it is used to inhibit all the inputs on all the peripheral devices connected to the VDUC. Delay and duration are configurable on this action.
 - **Force all the outputs**: It is used to force all the outputs managed by the VDUC. Duration and delay are configurable on this action.
 - **Stop the forcing of all outputs**: It is the reverse of the previous action. The delay is configurable for this action.
 - **Cabling test**: It is used to switch on or off the Test LED on the VDUC.
 - **Restart VDUC**: can be used to restart the VDUC if required.
 - **Empty the FIFOs**: it is used to delete the secured events currently saved in the FIFOs of the VDUC.
- Actions available on the peripheral devices:
 - **Reset a peripheral device**: It is used to restart a peripheral device and bring back all its interfaces to the "not working state".
- Actions available on readers:
 - **Reader inhibition**: it is used to disable a reader (or to block it). Duration is configurable on this action.
 - **Simulate a badge**: it is used to simulate the presentation of an id card in front of a reader.
 - **Anti passback reset**: it is used to remove all the information regarding blocked badge because of the anti-passback feature on a specific reader.
 - **Anti timeback reset**: it is used to remove all the information regarding blocked badge because of the anti-timeback feature on a specific reader.
 - **Block an id card on a reader**: it is used to block/unblock a specific id card on a reader. The anti-passback option can be used to block/unblock a specific id card because of the anti-passback on the reader.
 - **Block a profile on a reader**: it is used to block/unblock a specific profile on a reader. All the ID card using this profile to access this reader will be blocked.
- Actions available on all inputs:
 - **Input inhibition**: it is used to start and stop the inhibition of an input. An inhibited input will stop generating events. Delay and duration are configurable on this action.
 - **Forced Input inhibition**: it is used to start and stop the forced inhibition of an input. A forced inhibited input will act as an inhibited input, but will not be affected by an "**Input Inhibition** (stop)" action. Only a "**Forced Input Inhibition** (stop)" will bring it back to active mode.
- Actions available on all counter inputs:
 - **Set the value**: it is used to set or reset the value of an input configured as counter.
 - **Send the value**: it is used to generate a "value change" event with the current value of the counter and send it to a specific "VDUC" (in fact, more likely to CASTELServer).
 - **Increment the value**: can be used to increment (or decrement by adding a negative value) a counter input. The minimum value of the counter is 0.

- ❑ Actions available on the outputs:
 - **Activate an output:** it is used to activate an output.
 - **Force an output:** it is used to force an output in an active state or an inactive state. Delay and duration are available on this action.
 - **Stop the forcing:** it is used to stop the forcing of an output. Delay is configurable on this option.
- ❑ Actions available on audio interfaces of **VDUCs**:
 - **Play tonality:** it is used to play a tonality at an audio interface. Duration is configurable for this action.
 - **Stop tonality:** it is used to stop playing a tonality at an audio interface.
 - **Make a call:** it is used to start an audio/video call procedure. Delay is available for this action. See paragraph « [Configure a call on VDUC](#) » for more details on this action.
 - **Terminate call:** it is used to stop a call or a communication on an audio interface.
- ❑ Actions available on audio interfaces of **XELLIP** agents:
 - **Play tonality:** it is used to play a tonality at an audio interface. Duration is configurable for this action.
 - **Stop tonality:** it is used to stop playing a tonality at an audio interface.
 - **Make a call:** it is used to start an audio/video call procedure. Delay is available for this action. See paragraph « [Configure a call on XELLIP agents](#) » for more details on this action.
 - **Terminate call:** it is used to stop a call or a communication on an audio interface.
 - **Set call forwarding:** use to enable/disable the forwarding of incoming calls to another address.
- ❑ Actions available on macro-functions:
 - **Change state:** it is used to change the state of the macro-function and consequently execute the actions defined in the new state.

Configure a call on VDUC

This action can be configured to call simultaneously up to 10 VDIPMedia applications or SIP agents, with configurable delays between the calls in order to make progressive calls and give priority to specific people.

The VDIPMedia applications are identified by the IP address of the PC on which they are started (or by the DNS name if the DNS server has been configured in the network configuration of the VDUC).

The SIP agents to call are identified by a full SIP address, which means that their address must **ABSOLUTLY** start by « sip: » (examples: "sip:dupond@company.fr" or "sip:345").

The configuration page looks like the following:

Element Type			
Type : Audio			
Action			
Action <input type="text" value="Establish call"/>			
Action parameters			
	<u>Called</u>	<u>Delay (sec.)</u>	<u>Deported</u>
Call 1	192.168.63.50	0	
Call 2	sip:123@192.168.4	0	
Call 3	sip:359	0	
Call 4	tel:965	0	
Call 5		0	
Call 6		0	
Call 7		0	
Call 8		0	
Call 9		0	
Call 10		0	
Duration (1/10 sec) : <input type="text" value="0"/>			

The fields **"called"** and **"deported"** can be **IP addresses or DNS names** if a valid DNS server as been specified in the network configuration (Report to the documentation of the VDUC for more details), or **SIP addresses** (starting by "sip:").

The delays configured are counted from the moment when the action starts (they are not interval between the calls).

For example, the following configuration:

Call 1:	PC1 or SIP agent 1	delay: 0
Call 2:	PC2 or SIP agent 2	delay: 0
Call 3:	PC3 or SIP agent 3	delay: 10
Call 4:	PC4 or SIP agent 4	delay: 25

Will be performed in the following way:

Start of the action	→	PC1 and PC2 (or SIP agents) are called
After 10 seconds	→	PC3 is called (or SIP agent 3)
After 15 seconds	→	PC4 is called (or SIP agent 4)

If a **VDtel2** is configured on the VDUC, it is possible to use it for the primary calls and the deported calls. The phone number to dial must be preceded by the prefix **"tel:"** in order to indicate to the application that it is a phone number.

It is possible to call different numbers successively if nobody answers the phone. To achieve this, you have to configure the different numbers to call with a growing delay. The current call will be stopped before calling the next one, and so on.

So with the configuration:

Call 1:	tel: 322	delay: 0
Call 2:	tel: 325	delay: 45
Call 3:	tel: 327	delay: 90

Will call extension 322 for 45 seconds then extension 325 for 45 seconds and finally extension 327 until someone answers or the call times out (if a timeout was configured).

If different phone calls have the same delay, only the last one will be called.

If a **VDTeI** peripheral device is configured on the VDUC, then it is possible to use it for the primary calls or the deported calls. The configuration page then looks like the following:

Element Type

Type : Audio

Action

Action

Action parameters

	<u>Called</u>	<u>Delay (sec.)</u>	<u>Deported</u>	<u>VDTEL</u>
Call 1	<input type="checkbox"/> VDTEL	<input type="text" value="30"/>		
Call 2	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 3	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 4	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 5	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 6	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 7	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 8	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 9	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>
Call 10	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="checkbox"/>

Duration (1/10 sec) :

Remarks regarding the usage of a VDTeI peripheral:

- The telephone call has priority over all the other calls to the VDIPMedia applications: this means that if, depending on the configured delays, a call to a VDIPMedia application and a telephone call should start at the same time, only the telephone call is made.
In other words, if a VDTEL call is configured with a delay of 0, only the telephone call will be made.

In the same way, if a call to a VDIPMedia is configured with a delay of 0 and a deported call to the VDTel, when the VDIPMedia is put in deported mode (See the VDIPMedia documentation) then only the VDTel will be called.











- The action "Terminate call" will not work on a call or communication performed with the VDTel; the call will stop for one of the following reasons:
 - The person called is not answering the call (Timeout configurable via the telephone – see the technical documentation of the VDTel device for more details),
 - The person called is already in communication with someone else,
 - The VDTel communication timeout is reached (Timeout configurable via the telephone – see the technical documentation of the VDTel device for more details).

Configure a call on XELLIP agents

This action allows the configuration of up to 10 SIP agents, with configurable delays in order to make progressive calls and give priority to specific destinations.

The SIP agents to call are identified by their full SIP address, which means that they **MUST** start with "[sip:](#)" (Examples: "[sip:smith@company.fr](#)" or "[sip:3456](#)" if using an SIP server).

The configuration page looks as follows:

Action			
Action <input type="text" value="Establish call"/>			
Priority :		<input type="text" value="2-Normal"/>	
If call fails, repeat every :		<input type="text" value="0"/> seconds	
Call type :		<input type="text" value="Simultaneous"/>	
	<u>Called</u>	<u>Delay (sec.)</u>	
Call 1	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 2	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 3	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 4	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 5	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 6	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 7	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 8	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 9	<input type="text" value="sip:"/>	<input type="text" value="0"/>	
Call 10	<input type="text" value="sip:"/>	<input type="text" value="0"/>	

The **priority** defines the priority of the call and how it will be managed when received by XELLIP agents.

Option “**If call fails, repeat every N seconds**” can be used too repeat the call until it is answered. Leaving the value at 0 disables the functionality.

Call Type option can be used to select between simultaneous calls and sequential calls.

Simultaneous calls handling


The delays configured are counted from the moment when the action starts (they are not interval between the calls).

For example, the following configuration:

Call 1:	SIP agent 1	delay: 0
Call 2:	SIP agent 2	delay: 0
Call 3:	SIP agent 3	delay: 10
Call 4:	SIP agent 4	delay: 25

Will run as follows:

Start of the call	→	Call of SIP1 and SIP2
After 10 seconds	→	Call of SIP3
After 15 seconds	→	Call of SIP4

The icon  at the end of the call lines can be used to display the directory to select a number to call.

Sequential calls handling

When using sequential calls, duration can be configured for each number to call. The sequence stops when a call is answered or when all numbers have been called. The “repeat” option can be used to repeat the call if it fails.

MACRO-RELATIONS MANAGEMENT

The macro-relations are used to organise the relations by regrouping together the one part of the same complex function (complete handling of a door, SAS, etc.)

Once the macro-relation has been created, it becomes possible to duplicate it with the ability of changing the interfaces used. This facilitates the configuration of complex sites where the same behaviour needs to be reproduced multiple times (for different doors for example).

The aim of the macro-relations is to configure complex sites more quickly and to reuse complex configurations.

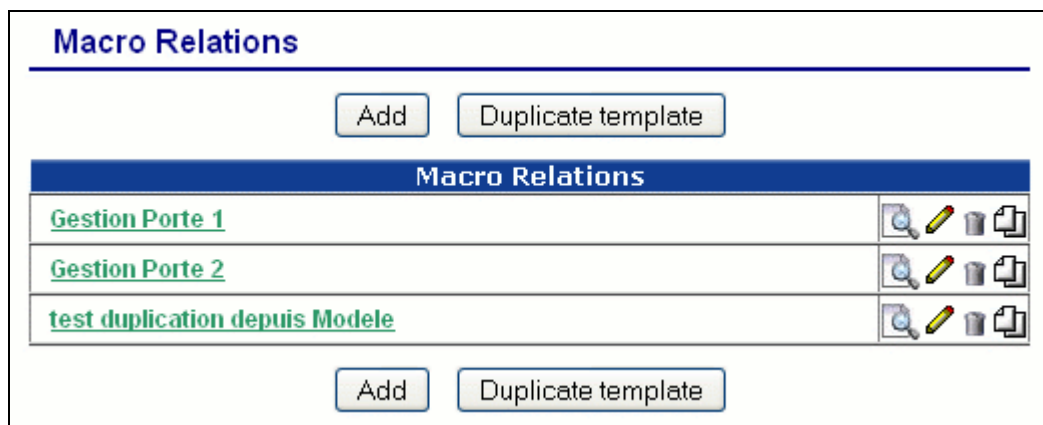
It is also possible to save a macro-relation as template in a file (1 for each macro-relation). The directory used to load or save the models is defined in the file "system.xml" (See ["Macro-relation templates parameters"](#)).

These files can then be saved and reused on other sites to simplify and speed-up the configuration of similar functionalities. The templates can obviously be used immediately on the local installation to create new macro-relations.

Macro-relations visualisation

The macro-relations follow the same visualisation principles as the relations and functions: they are visible on the "behaviour" page of the material elements they use in their relations.

At the VDIP network level, all of them are visible.



For each macro, it is possible to visualise, modify or delete it.





It is also possible to add a new macro from an existing template ("Duplicate template") with the selection of the interfaces to use.


Visualisation of a macro-relation

The visualisation of a macro-relation displays the list of relations composing this macro-relation. It is then possible to visualise the details of each relation by clicking on its name or the icon of visualisation.

MacroRelation "Gestion Porte 1"

Relations

Scheduled Relations	
blocage 22h	
déblocage 7h	
Entrée libre 9h	
fin entrée libre 19h	

Logical Relations	
Ouverture Porte sur badgeage	

RemoveModifyExport
Back to list

From there it is possible to modify or delete a macro-relation.

It is also possible to export a macro-relation as a template that will be saved in the folder configured in the "system.xml" file. (See [Macro-relation templates parameters](#) for details).

Macro-relation configuration

The configuration of a macro-relation (for creation or modification) looks as follows:

Macro-Relation Configuration

Label :

Relations

Scheduled Relations	
blocage 22h	
déblocage 7h	
Entrée libre 9h	
fin entrée libre 19h	

Logical Relations	
Ouverture Porte sur badgeage	

It is possible to add/modify/remove the relations of the macro-relation, the changes being only applied when clicking on "OK".

A macro-relation must contain at least one relation.

It is possible to add a relation by duplicating an existing relation: a selection screen will then allow the user to specify what interfaces should be used in the new relation.

Macro-relation duplication

The duplication of a macro-relation is used to create a new macro-relation from an existing one by replacing the interfaces used in the source by other interfaces selected by the user.

The selection screen is the following:

Duplicating Macro Relation	
Elements choice	
lect (M1-P1-I1)	lect <input type="button" value="Change"/>
door (M1-P1-I5)	door <input type="button" value="Change"/>

With the button change, the user can then select the interfaces to use in place of the interface used in the original macro-relation.

Le choice of interface is totally open:

- It is not mandatory to **replace an interface by one other**,
- An interface can be **replaced by several interfaces**,
- An interface can be **removed and not used anymore**.

Clicking on "OK" will then display the configuration page of the macro-relation with the relations modified to use the interfaces selected by the user.

If an interface is **removed** (replaced by no interface), it is possible that one or more relation is no longer valid (no trigger or no action defined in the relation). The user will then have to modify the invalid relations to be able to save the macro-relation.

If an interface used as event in one or more relations is replaced by **several other interfaces**, then the new relations will include as many events as the number of new interfaces.

In the case of logical events, the new events will be linked by the logical operator "**OR**". For the numerical events, the operator "+" will be used to perform the calculation using the new interfaces.

If the default operator is not the desired one, then the user will have to modify the select the proper one himself by modifying the relations.

Exporting a macro-relation

During the exportation of a macro-relation, it is possible to define specific names for each interface used so that the interface will be more easily identified when a new macro-relation is created from this template.

Label

lect (M1-P1-I1)
Reader

door (M1-P1-I5)
Output

The label entered here is the name of the new macro-relation template.

Using Macro-Relation templates

The macro-relation templates can be used to create a new macro-relation from a template available as a file in the directory configured (see "[Macro-relation templates parameters](#)").

The directory is scanned each time a user tries to create a new macro-relation from a template. It is not necessary to restart the application to use templates added to the directory after the start-up of the application.

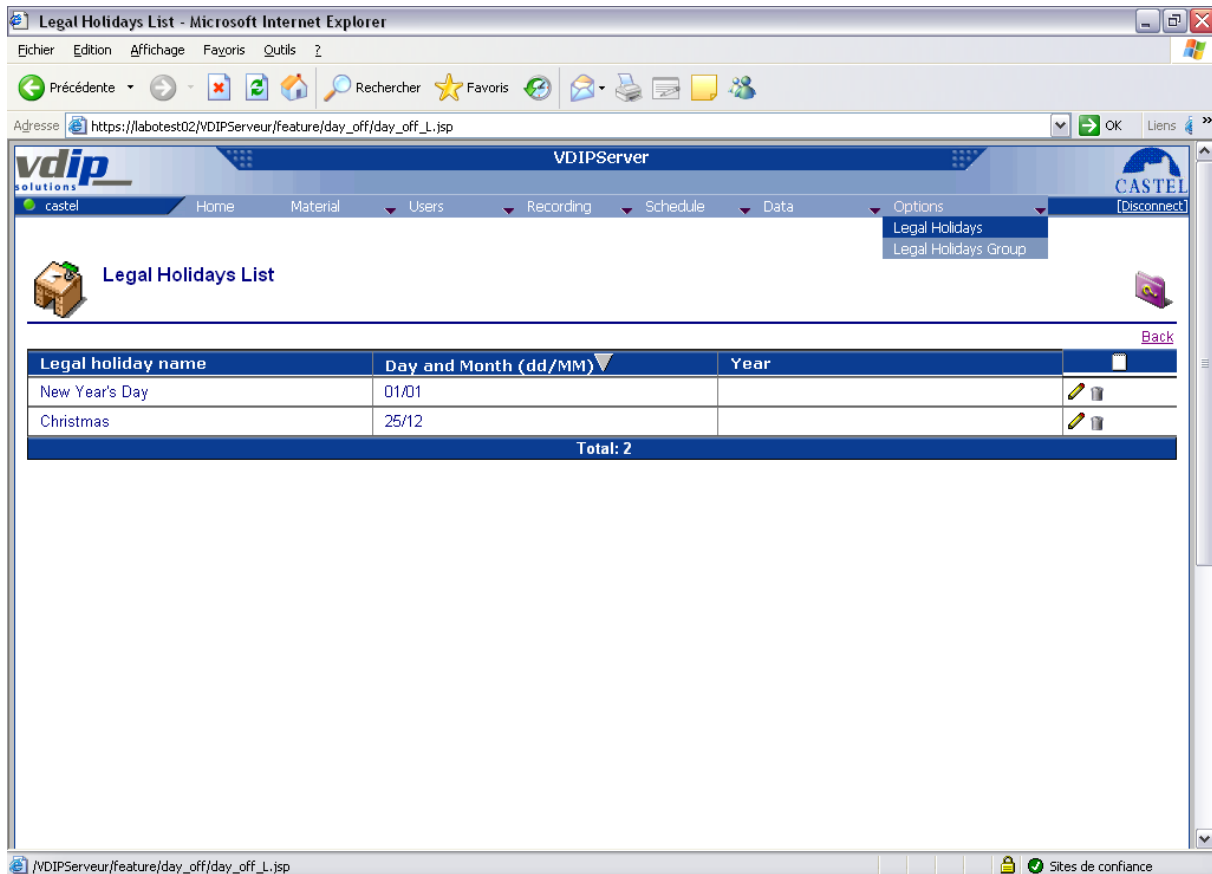
The interest of the technicians installing VDIP systems is to constitute a library of macro-relations that they can bring with them when installing or extending an installation. They would then be able to reuse the macro-relations created previously to solve the same kind of problem.

In the end, if these templates are shared among the different members of an installation service, and they are improved regularly by the member of this service, this could lead to a standardisation of the configuration, therefore simplifying the intervention of a technician on a site that was configured another member of the service.





LEGAL HOLIDAYS CONFIGURATION

Legal holidays list


The goal of legal holidays is to specify special days when scheduled relation actions should be revoked.




X

- ❑ This page shows the legal holidays list with the following details:
 - The legal holiday name
 - The date and month of the legal holiday
 - The year of the legal holiday
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by a click on the column header list.
- ❑ The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Options/Legal holidays](#)
- The creation , view , modification  and remove  actions are reachable by associated links.

Legal holiday creation

- ❑ This page allows the user to create a new legal holiday.
- ❑ One legal holiday can be defined in two ways:
 - The day and month are the same every year. In this case, the year is not necessary
 - Example: Christmas 25/12
 - The day and the month are different every year. In this case, the year is mandatory.
 - Example: Easter 11/04/2004, 27/03/2005
- ✓ The parameters displayed in bold parameters are mandatory (Name, day and month)
- This page is available by clicking on  button displayed on the [Legal holidays list page](#).
- After entry validation, the application displays the [Legal holidays list page](#).

Legal holiday remove

- This action is available by clicking on  button displayed on the [Legal holidays list](#) page. It allows the user to remove existing legal holiday.

Legal holiday modification

Legal Holidays - Modification

VDIPServer

castel Home Material Users Recording Schedule Data Options

Legal Holidays
Legal Holidays Group


Legal holiday name: New Year's Day

Day and Month (dd/MM): 01/01

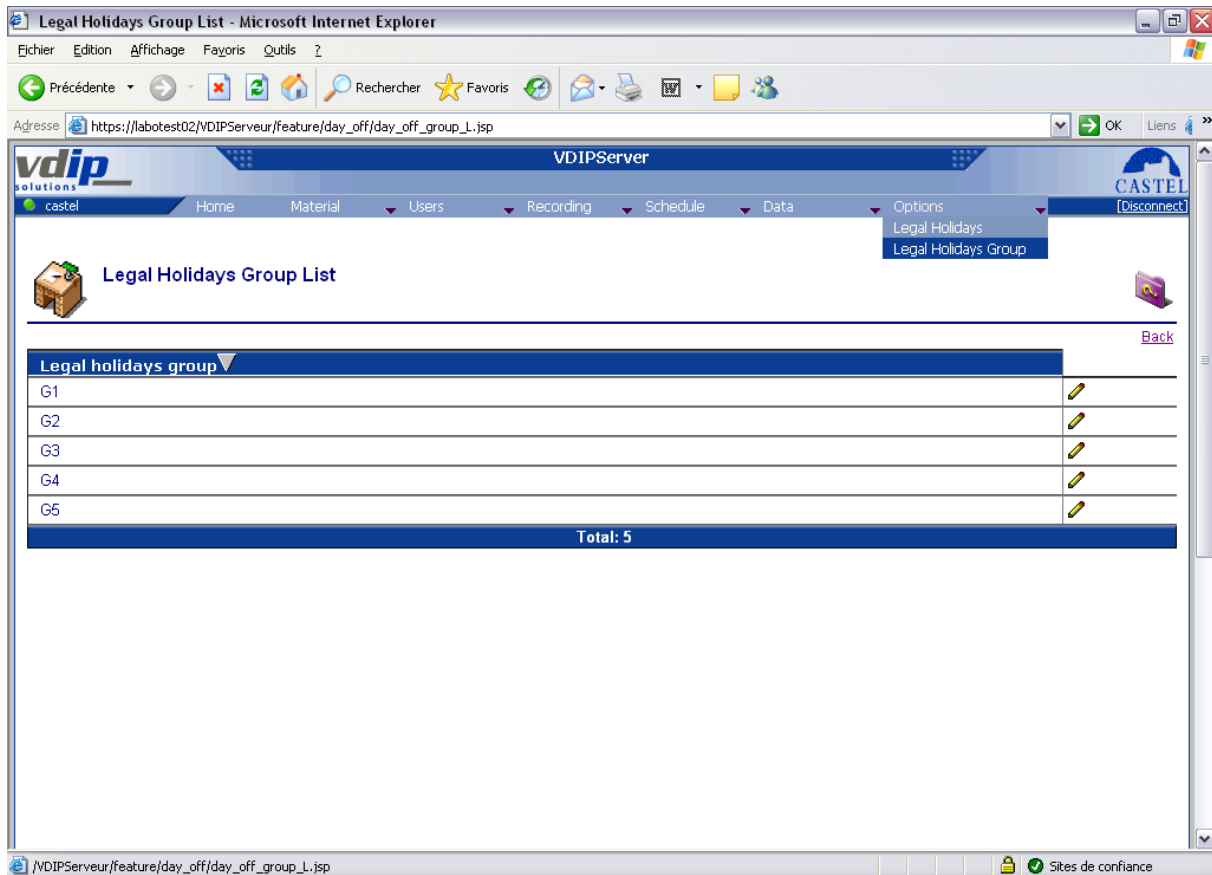
Year:

Validate

© 2006 Castel v1.2.7

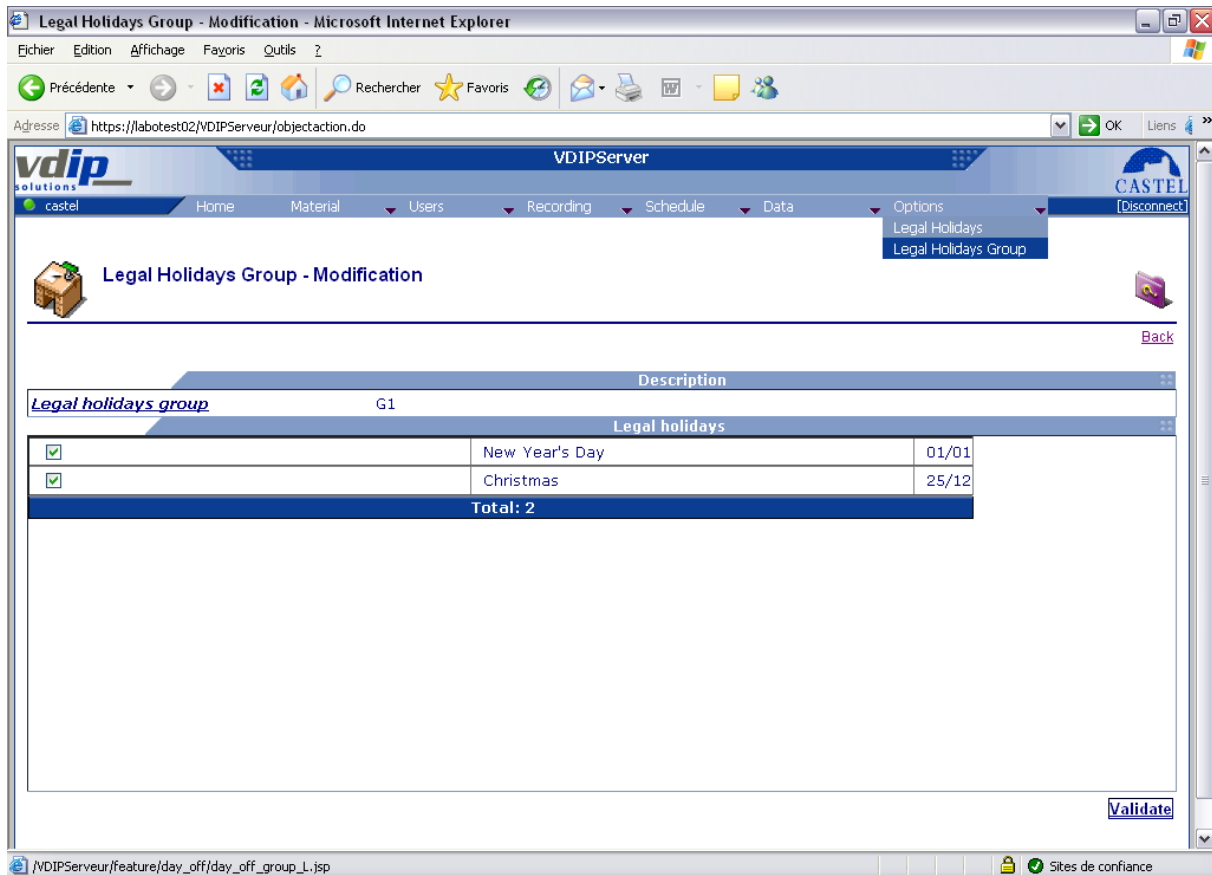
- ❑ This page allows the user to modify an existing legal holiday.
- ✓ The parameters displayed in bold parameters are mandatory.
- This page is available by clicking on  button displayed on the [Legal holidays list page](#).
- After entry validation, the application displays the [Legal holidays list page](#).


Legal holidays group list



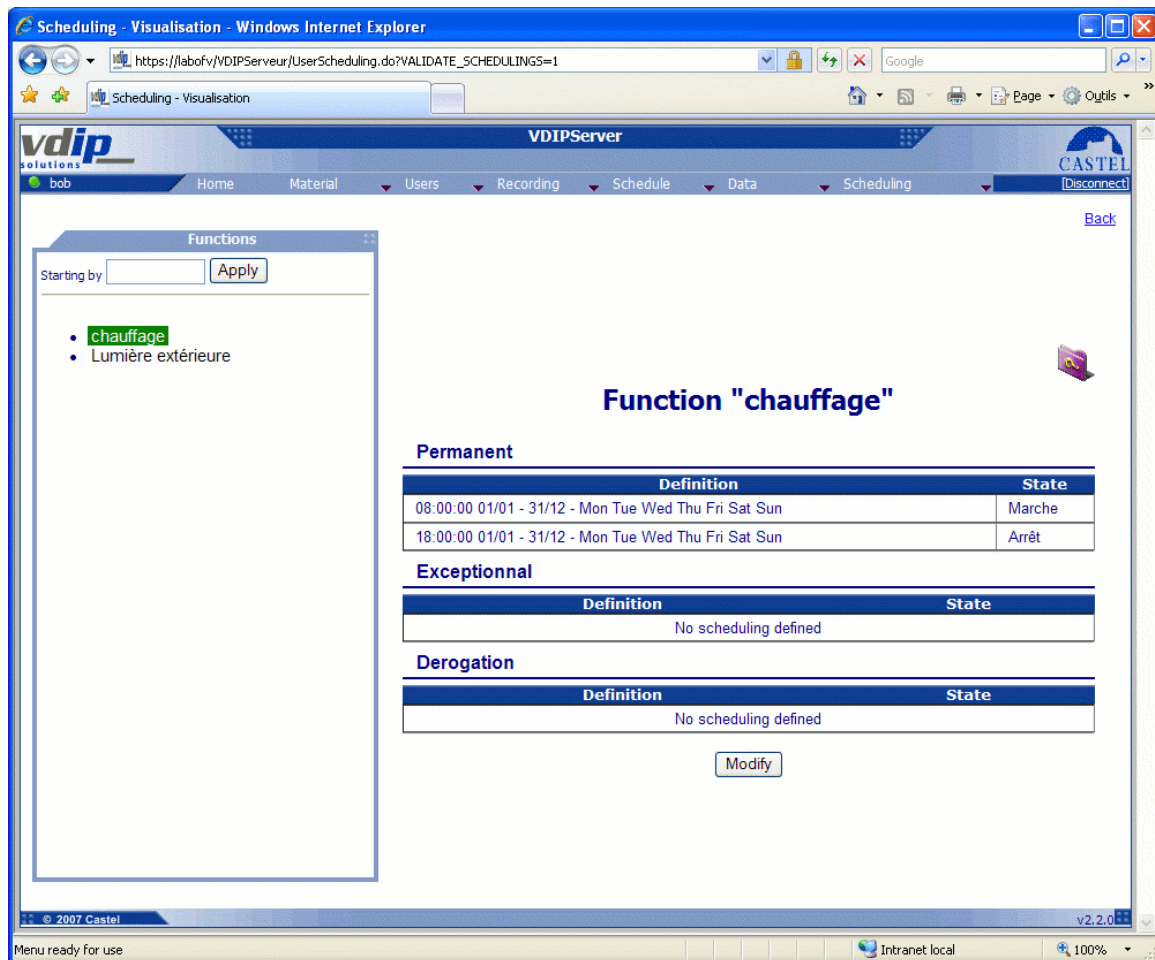
- ❑ This page shows the legal holidays group list with the following details:
 - The name of the legal holidays group,
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by a click on the column header list.
- This page is reachable from the following menu [Options/Legal holidays group](#)
- The modification action is reachable by associated link.

Legal holidays group modification



- ❑ This page allows the user to modify an existing legal holiday group.
- ❑ The user must select the different legal holidays in order to include them in the group
- This page is available by clicking on  button displayed on the [Legal holidays group list](#) page.
- After entry validation, the application displays the [Legal holidays group list](#) page.

Functions scheduling



- ❑ This page is used to define the scheduling of the functions defined on the material pages (See "[The Functions](#)" for more details).
- ❑ The left-hand side of the page presents the list of functions defined in the system (Only a user with the material configuration right can create these functions). The right hand side of the page shows the different states scheduled for the selected function.

Functions scheduling behaviour principles

The page « **Functions scheduling** » in **CASTELServer** is used to define the scheduling of the functions defined in the VDIP system (See "[The Functions](#)" for more details).

The scheduling can include different levels of priority:

- Permanent scheduling (lowest priority),
- Exceptional scheduling (intermediary priority),

- Derivational scheduling (highest priority).

The following example illustrates the need to have these different priorities:

- a. Each year, from 01/01 till 15/04 and from 15/10 till 31/12, the Office heating must go into "Full work" state every day of the week at 6:30 AM.
- b. But every year during the period from 25/12 till 31/12, the office heating is put in state "Full stop" every day because of the winter holidays,
- c. But this year on the 27/12/2007, the Office heating will be put in state "Half work" during the afternoon from 10:00 AM till 8:00 PM for an exceptional meeting.

Following this example, 3 types of scheduling have been defined:

Permanent scheduling:

The permanent scheduling consists in defining for some days of the week the time of the day at which the function should change into a specific state, and this defined for a certain period of the year defined from a "start date" to an "end date". This scheduling is repeated yearly. Point a) of the example above corresponds to this scheduling type (or priority).


Exceptional scheduling:

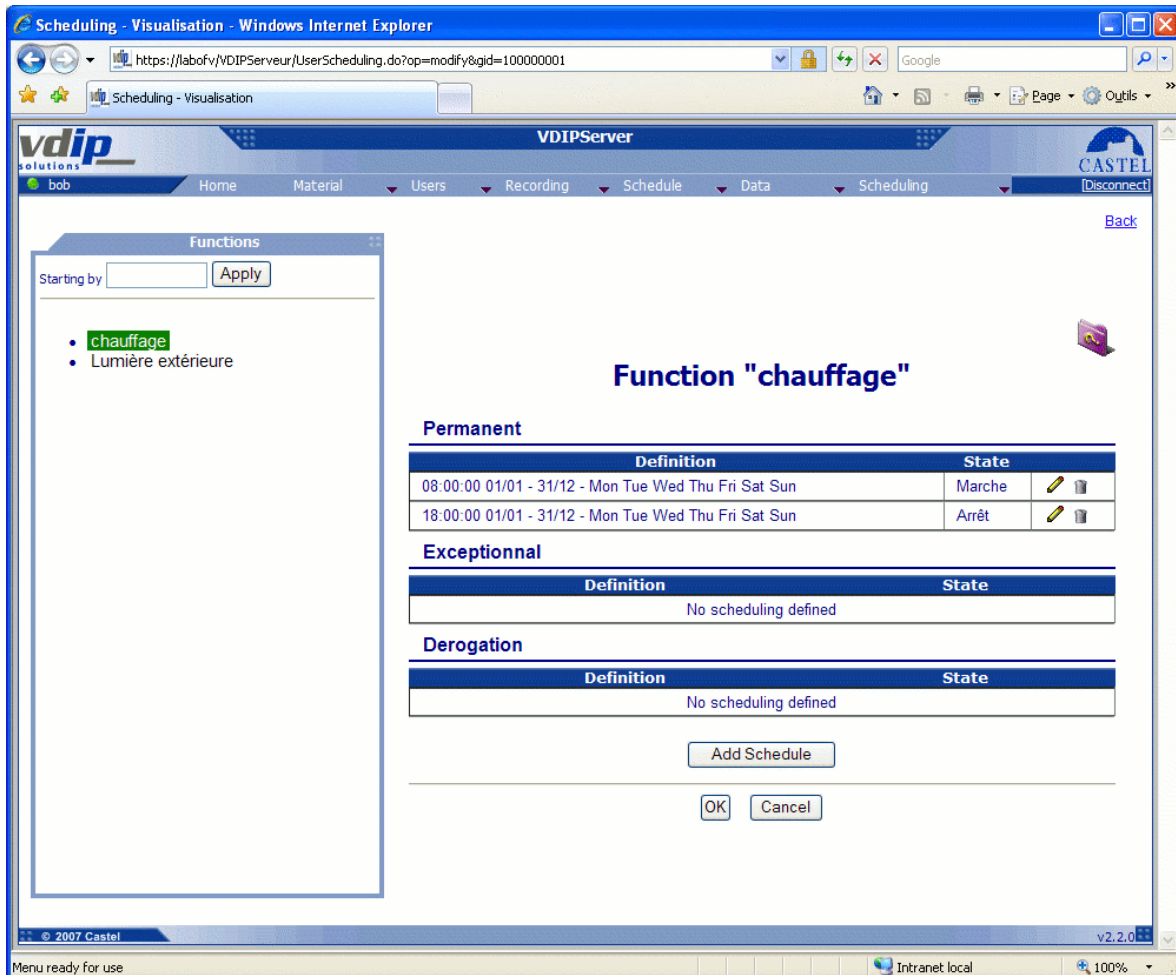
The exceptional scheduling for a function is defined in the same way than the permanent scheduling, but has a higher priority. The exceptional scheduling is also repeated yearly. Point b) of the example above corresponds to this scheduling type (or priority).

Derivational scheduling:

The derivational scheduling consists in defining a specific period from a start date to an end date of a specific year during which the function will enter a specific state. This scheduling is not repeated yearly (since the dates include the year) and has priority over the permanent and exceptional scheduling potentially defined for the same period. Point c) of the example above corresponds to this scheduling type (or priority).

Function scheduling modification

- Once the desired function has been selected on, the left hand-side of the page, the button  can be used to modify the existing configuration scheduling.



- From this page, it is then possible to add, modify or remove an existing scheduling from the configuration.

Adding/Modifying a schedule

- This page is used to add or modify a schedule to the function.

The screenshot shows the 'Scheduling - Visualisation' window in Internet Explorer. The URL is https://labofv/VDIPServer/UserScheduling.do?op=OPERATION_ADD_SCHEDSTATE. The page title is 'VDIPServer'. The navigation bar includes 'Home', 'Material', 'Users', 'Recording', 'Schedule', 'Data', and 'Scheduling'. The 'Functions' sidebar on the left lists 'chauffage' (selected) and 'Lumière extérieure'. The main content area is titled 'chauffage' and contains the following configuration fields:

- State:** Marche (dropdown)
- Priority:** Permanent (dropdown)
- Time:** H (0-23): 8, M (0-59): 0, S (0-59): 0
- Dates:** Start Date: 1 January, End Date: 31 December
- Days of the Week:** Mon, Tue, Wed, Thu, Fri, Sat, Sun (all checked)
- Day Off groups:** G1, G2, G3, G4, G5 (all unchecked)

Buttons for 'OK' and 'Cancel' are located at the bottom of the form. The footer of the browser window shows '© 2007 Castel' and 'v2.2.0'.

- The definition of a schedule includes the following elements :
 - The state of the function,
 - The type of schedule (permanent, exceptional or derivational),
 - The start time,
 - The period dates,
 - The days of the week,
 - The groups of holidays (If a group is selected, the actions defined in the state will NOT be executed for each day included in this group).

PERFORM AN ACTION COMMAND

- It is possible to perform commands on the different material elements of the system, if the user has been given sufficient rights (See paragraphs on the functionalities and the configuration of users).

Define Command

Element Type

Type : Non Impedant counter input

Action

Action Inhibition of input

Action parameters

State Start

Duration (1/10 sec) 0

NowDelay (1/10sec) 0

Perform

(Inhibition command of an input, with the parameters start/stop, duration and delay of the action).

- For each type of elements are presented in a selection list the different actions available. These actions are the one described at paragraph [Actions Definition](#).
- This page is accessible by selecting an element in the [Material Tree](#) then by clicking on the tabulation "Commands" in the working area.

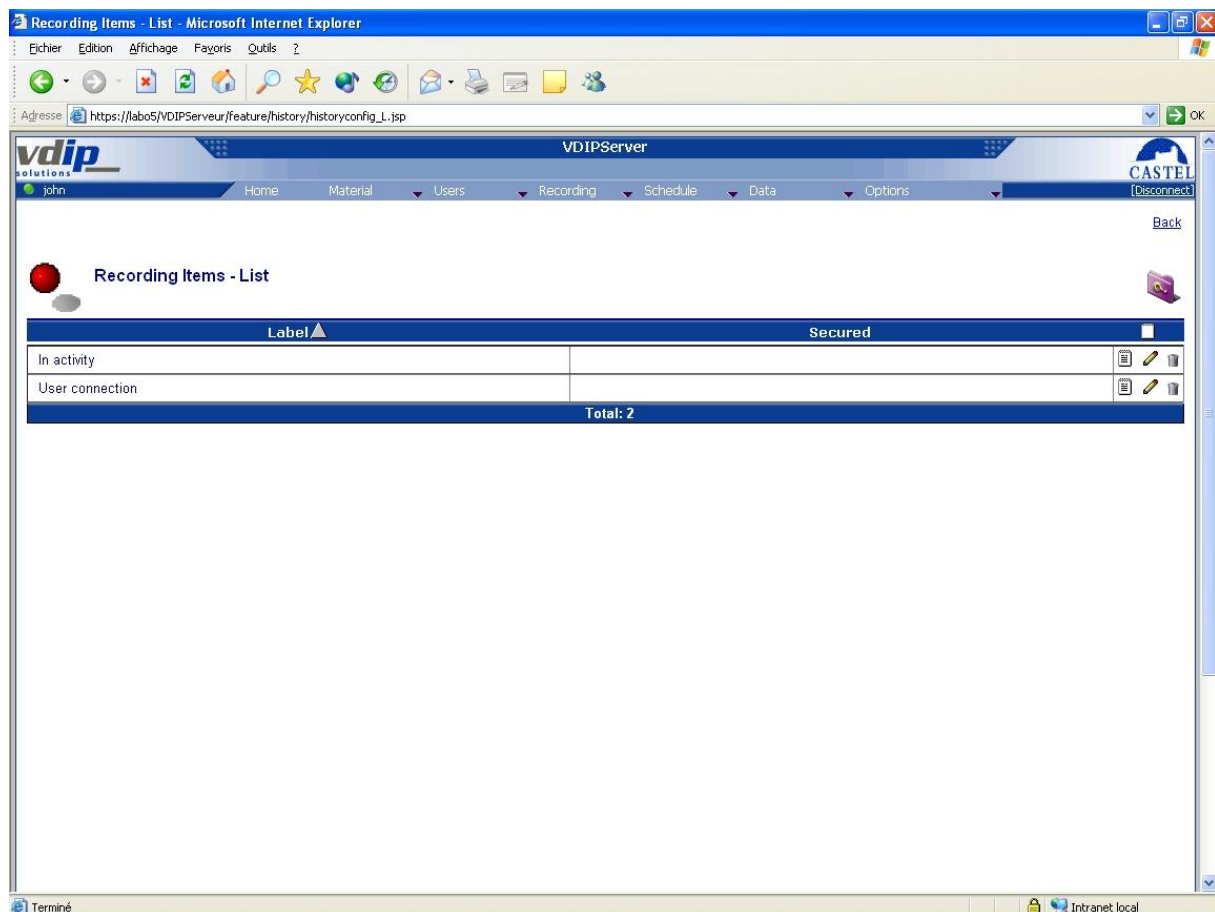
EVENTS RECORDING MANAGEMENT

CASTELServer allows the user to record available events from the VDIP system. The records are stored in the database associated to **CASTELServer**. **A cleaning strategy available with a specific task of the agenda must be configured in order to avoid database slowdown or overloading.**





Recording Items

CASTELServer allows a user to specify in a recording item the interface and the events he wants to save in the database.

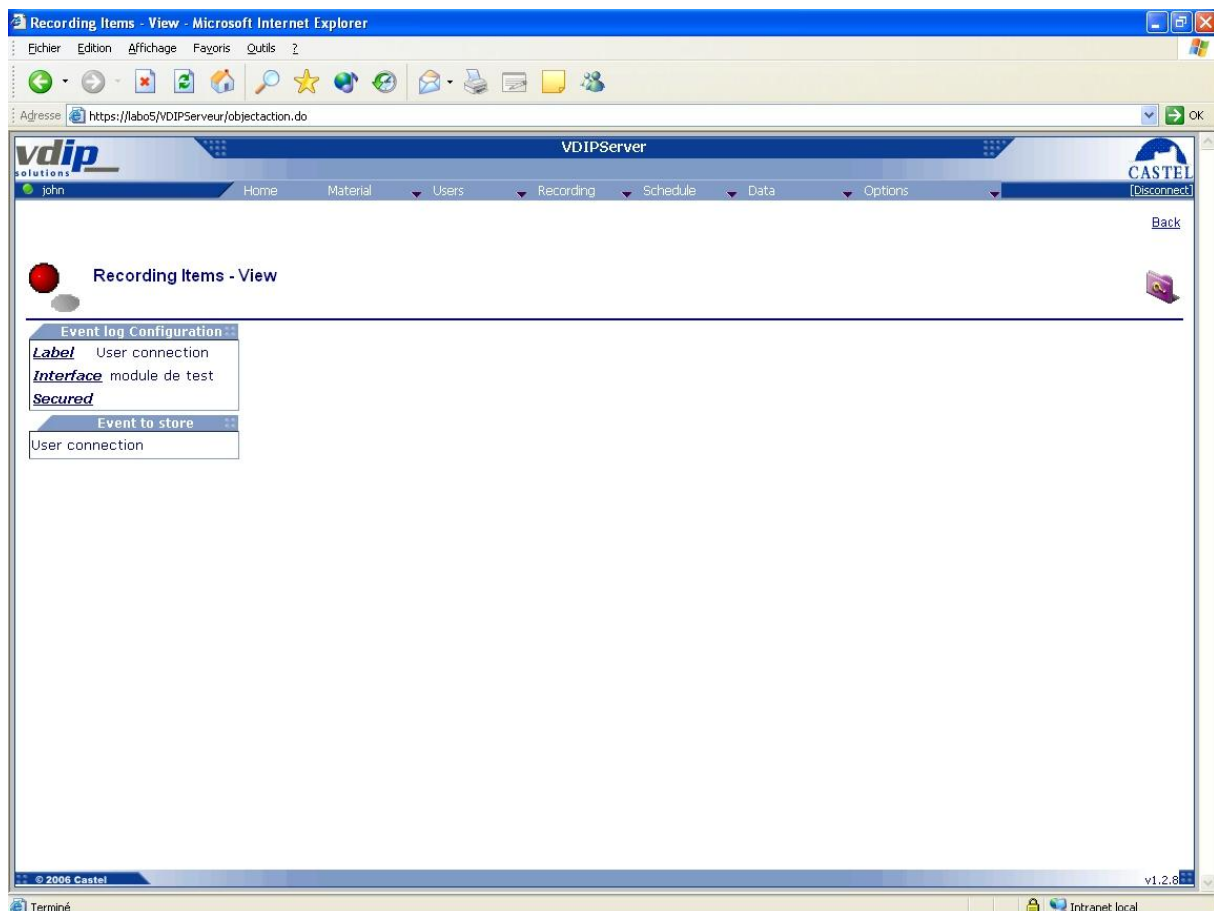
Recording Item – List




- ❑ This page shows the recording items list with the following detail:
 - Recording name.
 - Secured or non secured
 - Secured option force VDUC to keep in memory the event in case of network disconnection. As soon as the network is back, the event is sent to **CASTELServer**.
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by clicking on the column header list.

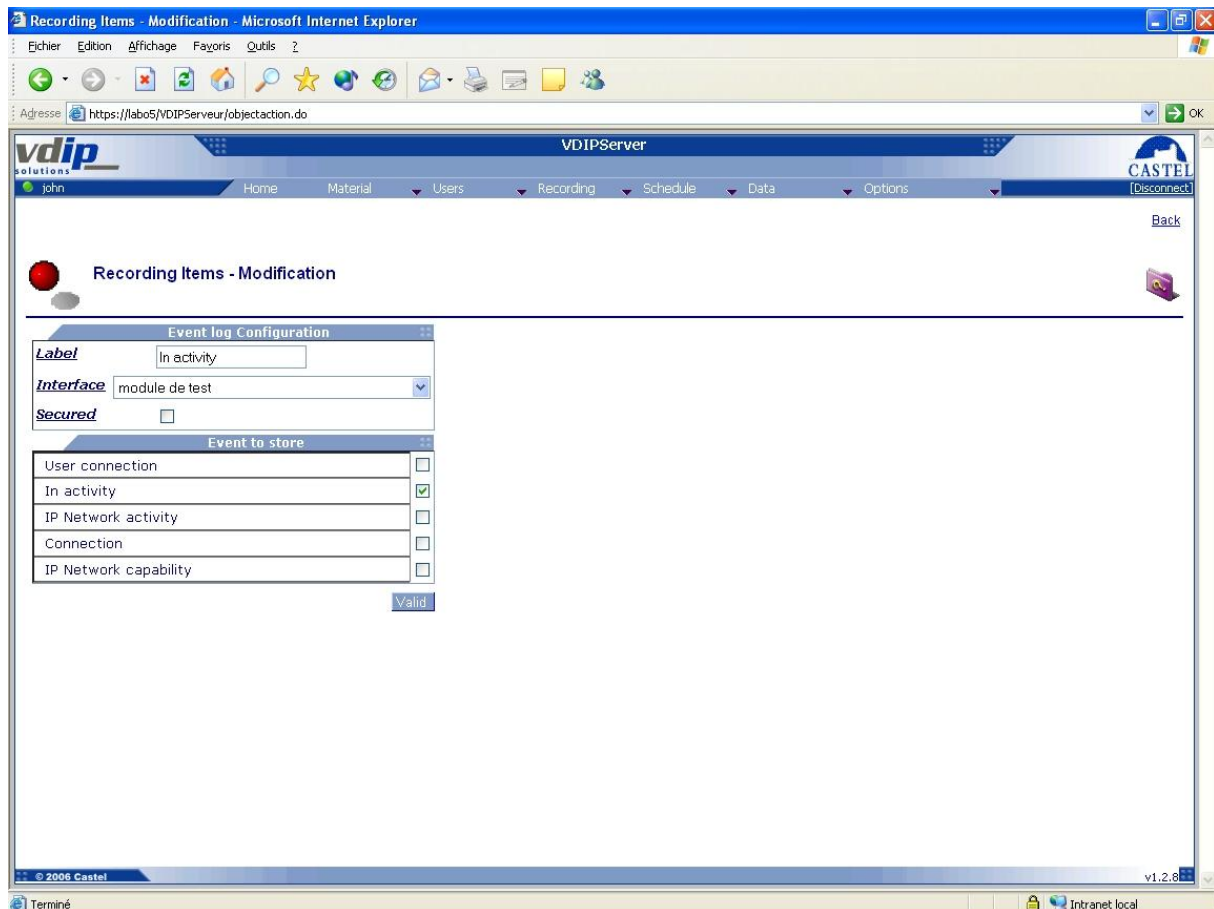
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Recording Items/Configuration](#)
- The creation , view , modification  and remove  actions are reachable by associated links.


Recording Item – View



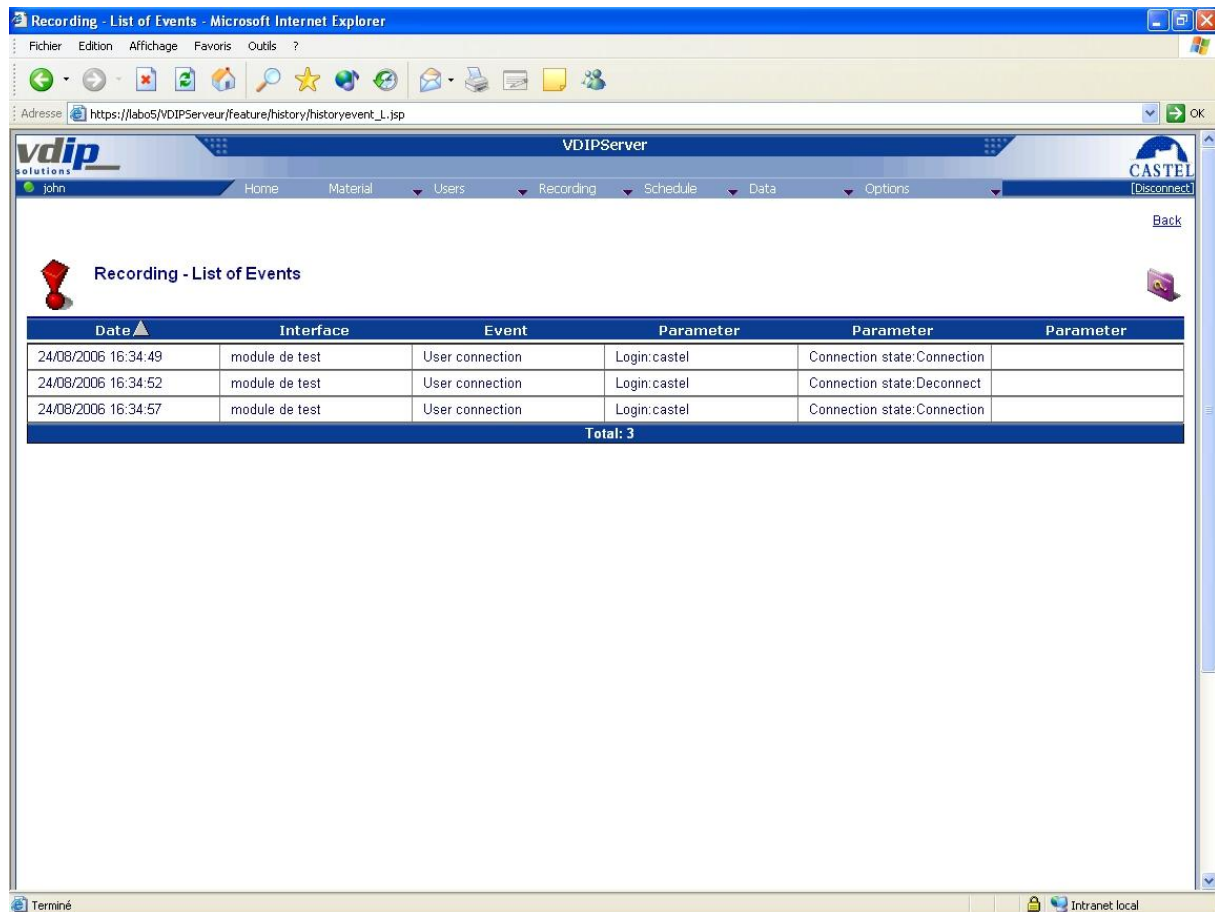
- ❑ This page allows the user to view an existing recording item with the following detail:
 - Recording name
 - Associated material device (VDUC module or peripheral devices or interfaces like input, output, reader, audio or video interface)
 - Secured or non secured
 - Secured option force VDUC to keep in memory the event in case of network disconnection. As soon as the network is back, the event is sent to **CASTELServer**.
 - Events to record depending on the selected device.
- This page is available by clicking on  button displayed on the [Recording Item List](#) page.

Recording Item – Modification



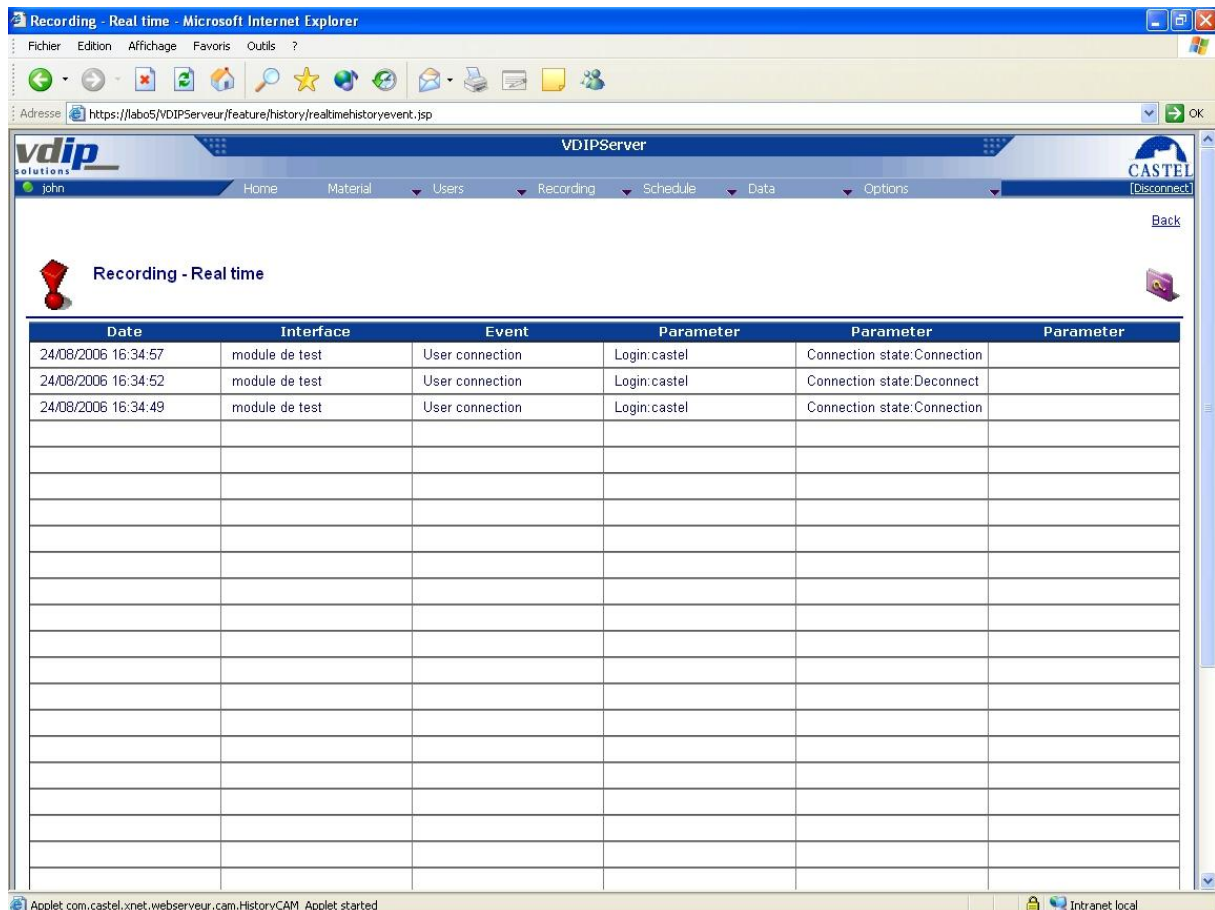
- ❑ This page allows the user to modify an existing recording item. The following parameters are available:
 - Recording name
 - Associated material device (VDUC module or peripheral devices or interfaces like input, output, reader, audio or video interface)
 - Secured or non secured
 - Secured option force VDUC to keep in memory the event in case of network disconnection. As soon as the network is back, the event is sent to **CASTELServer**.
 - Events to record depending on the selected device.
- This page is available by clicking on  button displayed on the [Recording Item List](#) page.
- After entry validation, the application displays the [Recording Item List](#) page.

Recording – List of events



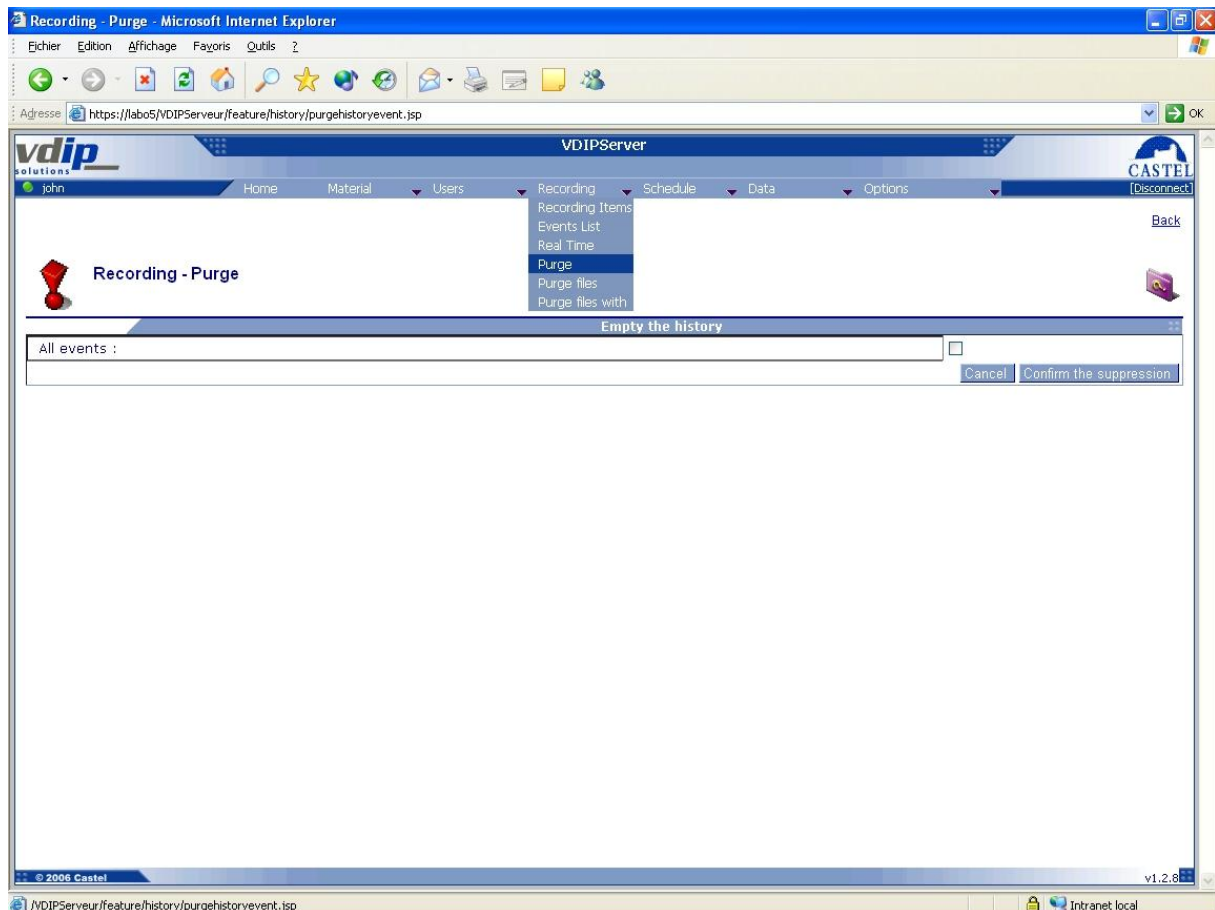
- ❑ This page shows the events list with the following details:
 - Date and time of the event
 - Interface Name
 - Event name
 - Parameter 1
 - Parameter 2
 - Parameter 3
- ❑ Each column can be sorted in Ascending ▲ or Descending ▼ order by clicking on the column header list.
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Recording/List of Events](#)

Recording – Real Time



- ❑ This page shows the real-time events list. It displays the 30 last stored events with the following details:
 - Date and time of the event
 - Interface Name
 - Event name
 - Parameter 1
 - Parameter 2
 - Parameter 3
- ❑ The list items are sorted by date from the more recent one to the older one (non modifiable).
- This page is reachable from the following menu [Recording/Real-Time](#)

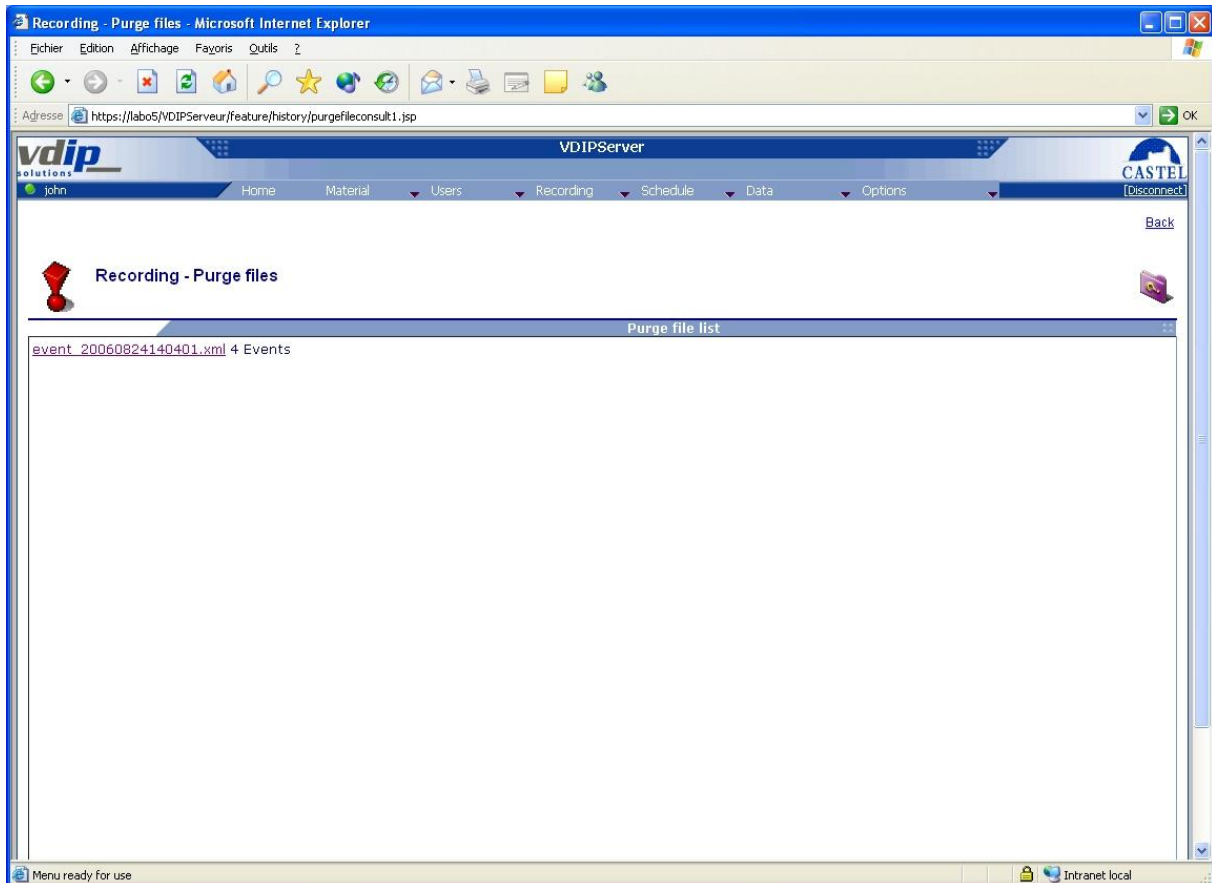
Recording – Purge



- ❑ This page allows the user to remove all events from the database.
- This page is reachable from the following menu [Recording/Purge](#)

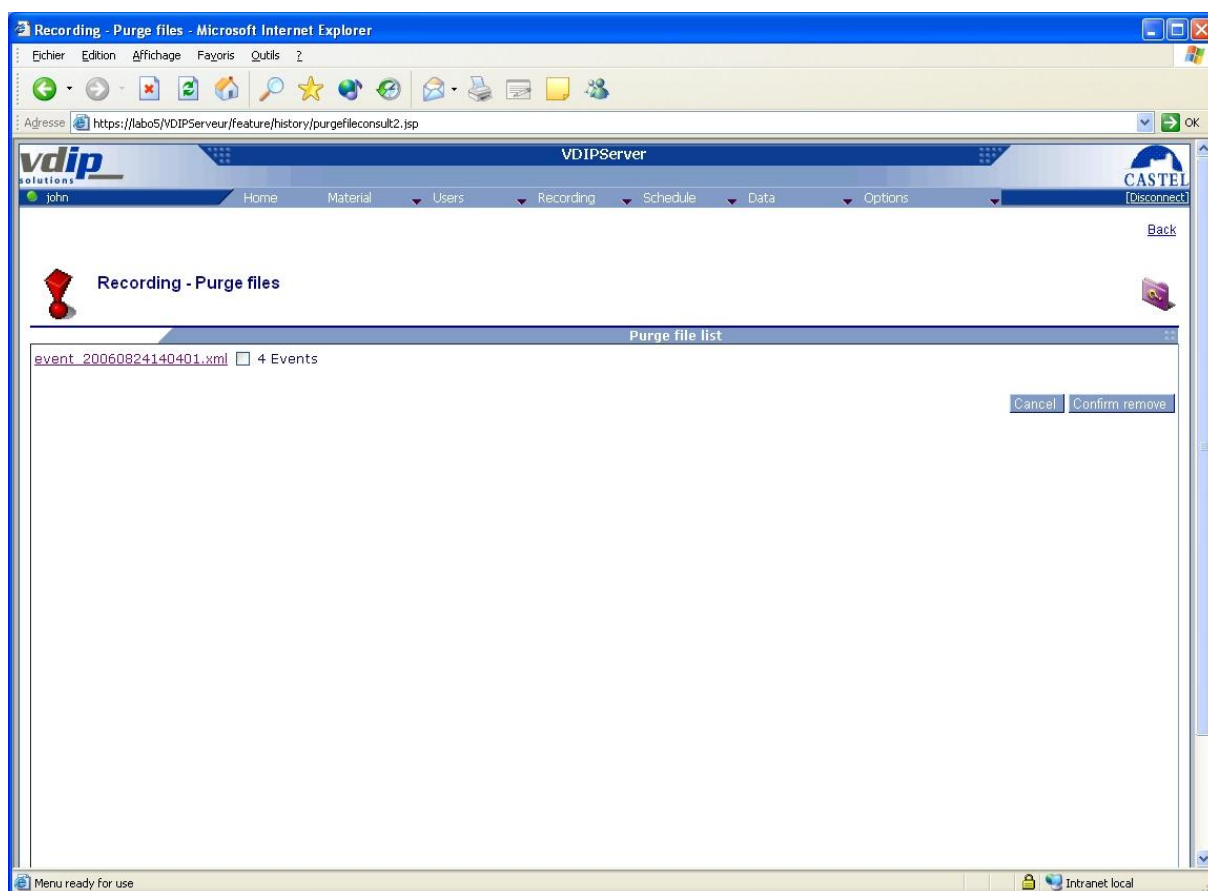
Recording – Purge File

- ❑ This page allows the user to consult all purge files with the following details:
 - Xml file name containing the date
 - Number of events contained in the xml file

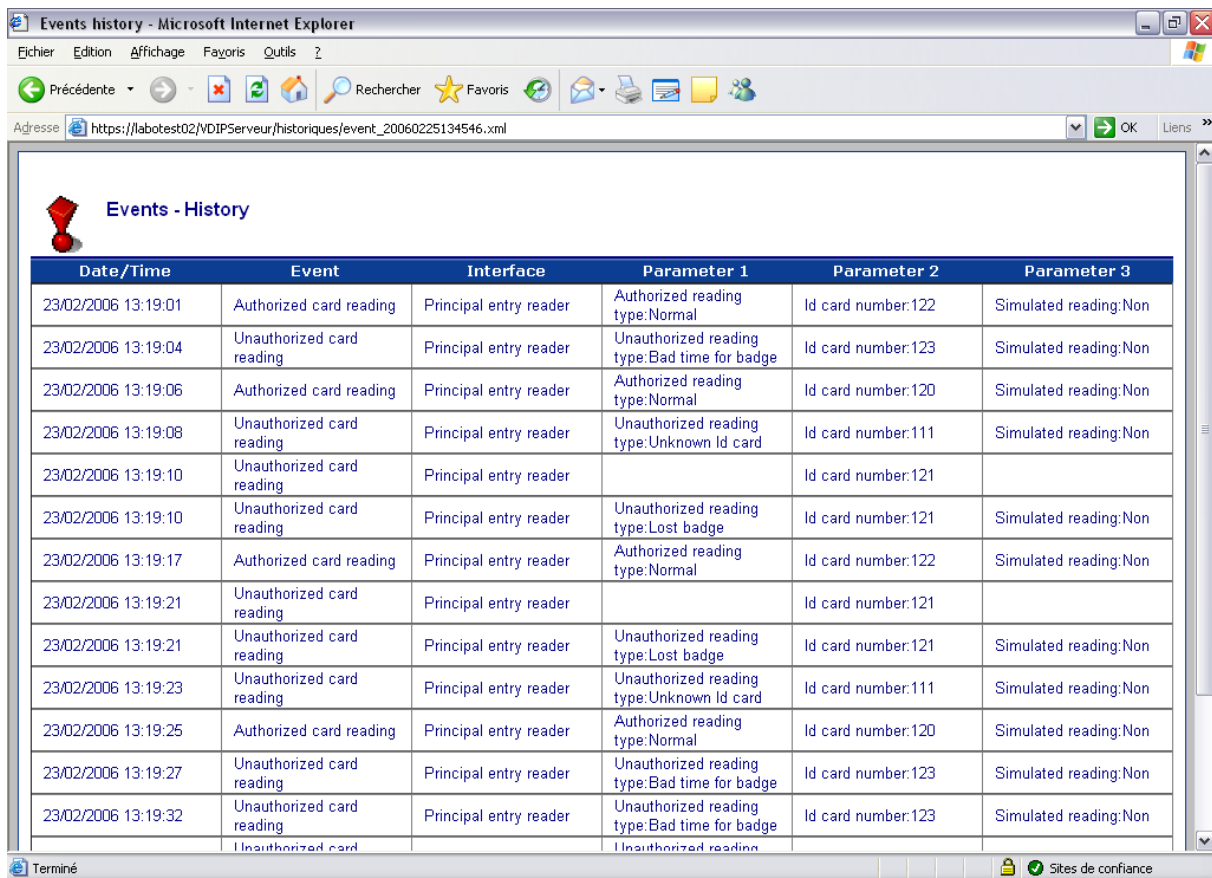


Recording – Purge File + remove

- ❑ This page allows the user to consult and remove purge files with the following details:
 - Xml file name containing the date
 - Number of events contained in the xml file



By clicking on the xml file, the user can access to the content of the file. The language used for xml file is the **CASTELServer** default language (see system.xml section)



Date/Time	Event	Interface	Parameter 1	Parameter 2	Parameter 3
23/02/2006 13:19:01	Authorized card reading	Principal entry reader	Authorized reading type:Normal	Id card number:122	Simulated reading:Non
23/02/2006 13:19:04	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Bad time for badge	Id card number:123	Simulated reading:Non
23/02/2006 13:19:06	Authorized card reading	Principal entry reader	Authorized reading type:Normal	Id card number:120	Simulated reading:Non
23/02/2006 13:19:08	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Unknown Id card	Id card number:111	Simulated reading:Non
23/02/2006 13:19:10	Unauthorized card reading	Principal entry reader		Id card number:121	
23/02/2006 13:19:10	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Lost badge	Id card number:121	Simulated reading:Non
23/02/2006 13:19:17	Authorized card reading	Principal entry reader	Authorized reading type:Normal	Id card number:122	Simulated reading:Non
23/02/2006 13:19:21	Unauthorized card reading	Principal entry reader		Id card number:121	
23/02/2006 13:19:21	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Lost badge	Id card number:121	Simulated reading:Non
23/02/2006 13:19:23	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Unknown Id card	Id card number:111	Simulated reading:Non
23/02/2006 13:19:25	Authorized card reading	Principal entry reader	Authorized reading type:Normal	Id card number:120	Simulated reading:Non
23/02/2006 13:19:27	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Bad time for badge	Id card number:123	Simulated reading:Non
23/02/2006 13:19:32	Unauthorized card reading	Principal entry reader	Unauthorized reading type:Bad time for badge	Id card number:123	Simulated reading:Non
	Unauthorized card		Unauthorized reading		

- This page is reachable from the following menu [Recording/Purge Files](#)







SCHEDULING MANAGEMENT

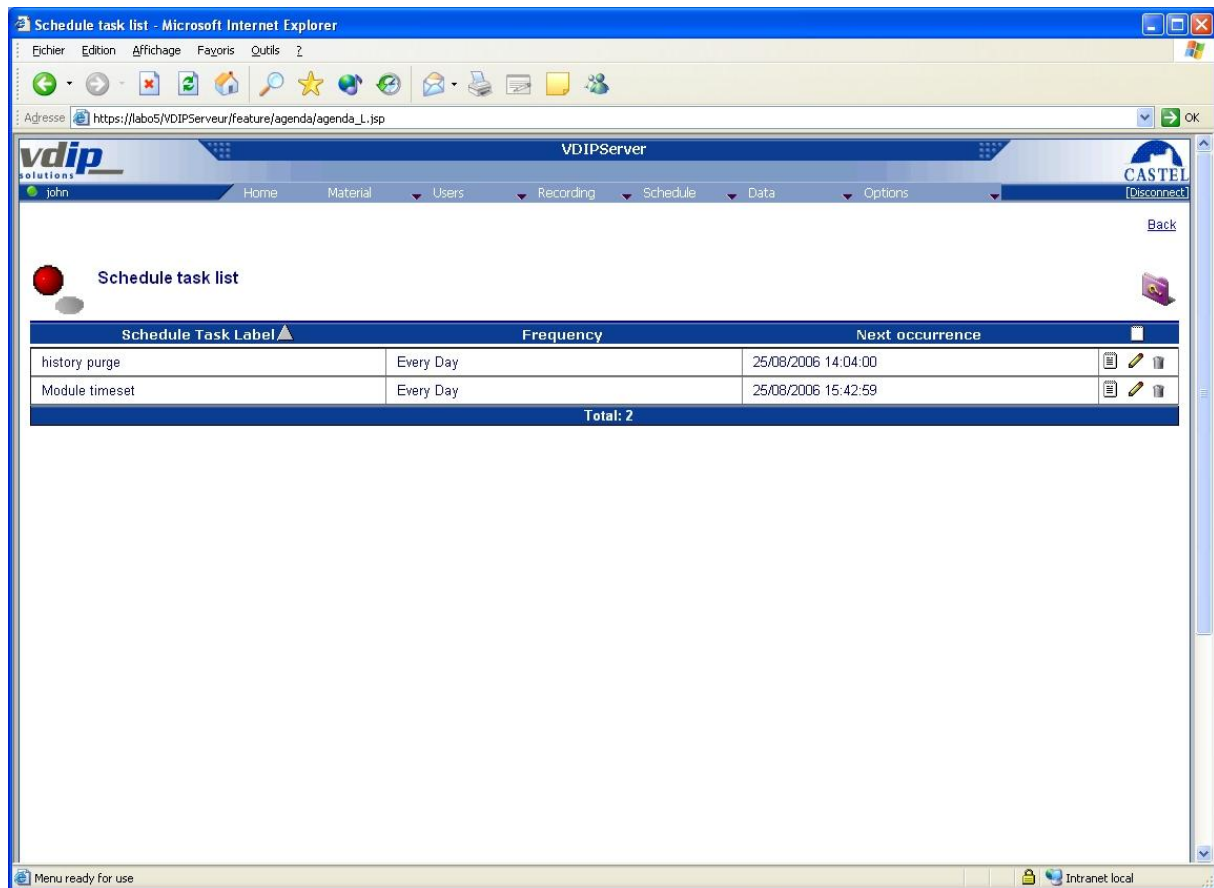
CASTELServeur provides an agenda where the user can schedule particular tasks. The scheduling tasks can be as follow:

1. Clean Database
 - Clean the database depending on the cleaning strategy defined in system.xml
2. Update VDUC module time
 - Send a command to update the VDUC time with the current PC time
3. Garbage Collector
 - Castel reserved
4. SQL Command
 - Execute a specific SQL command included in a file specified in system.xml file
5. Automatic database backup
 - Execute the backup of the three databases of VDIP: CASTELServeur, CASTELAcces and CASTELSuperviseur.


Scheduling tasks

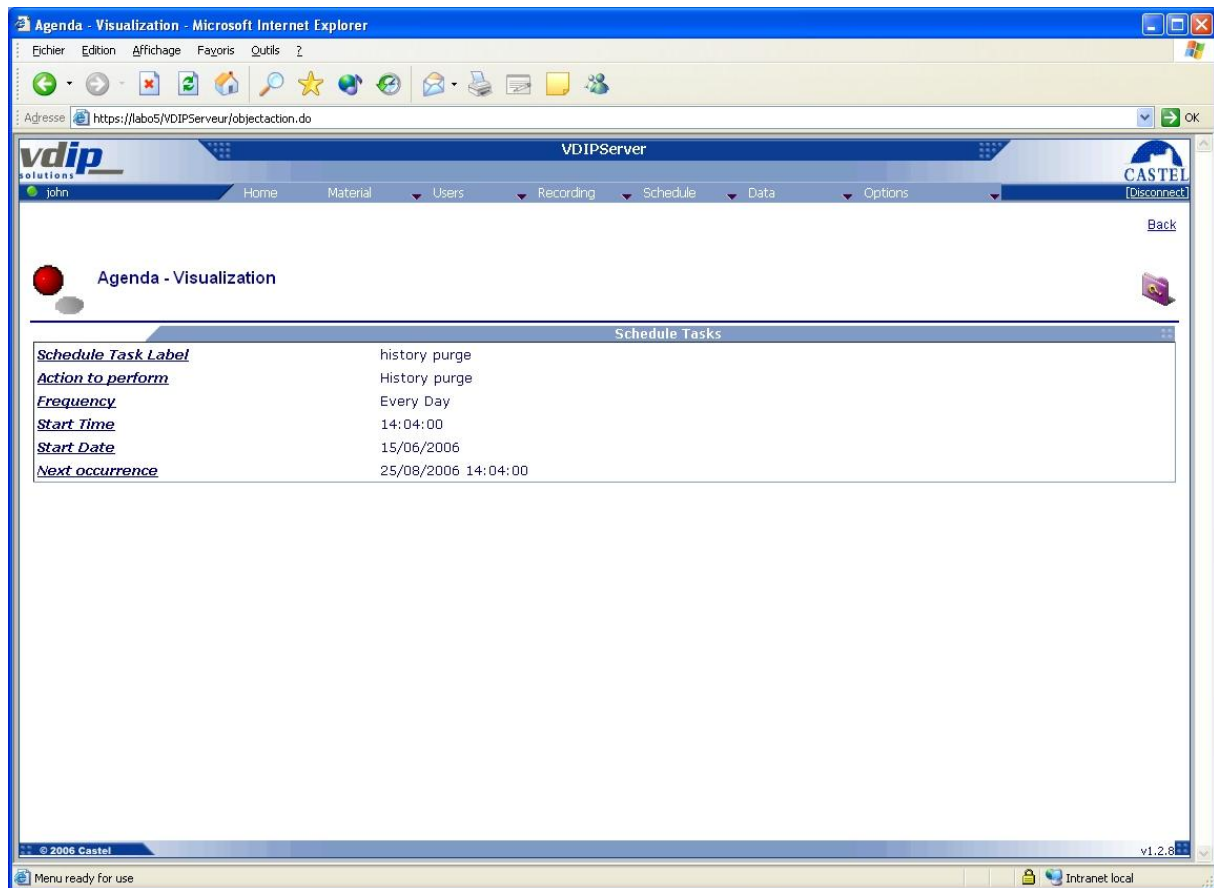
Schedule Tasks list

- ❑ This page shows the scheduling tasks list with the following detail:
 - Task label
 - Frequency.
 - Next occurrence date
- ❑ Each column can be sorted in Ascending  or Descending  order by clicking on the column header list.
- ❑ The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu [Schedule/Schedule Tasks](#)
- The creation , view , modification  and remove  actions are reachable by associated links.



Schedule task – View


- This page allows the user to view an existing schedule task with the following detail:
 - Task label
 - Action to perform
 - Frequency.
 - Next occurrence date
 - Additional information depending on the frequency
 - For a daily frequency
 - Start Time
 - Start Date
 - For a weekly frequency
 - Start time
 - Start date
 - Day of week
 - For a monthly frequency
 - Start time
 - Start date
 - Day of the month
- This page is available by clicking on  button displayed on the [Schedule tasks list page](#).



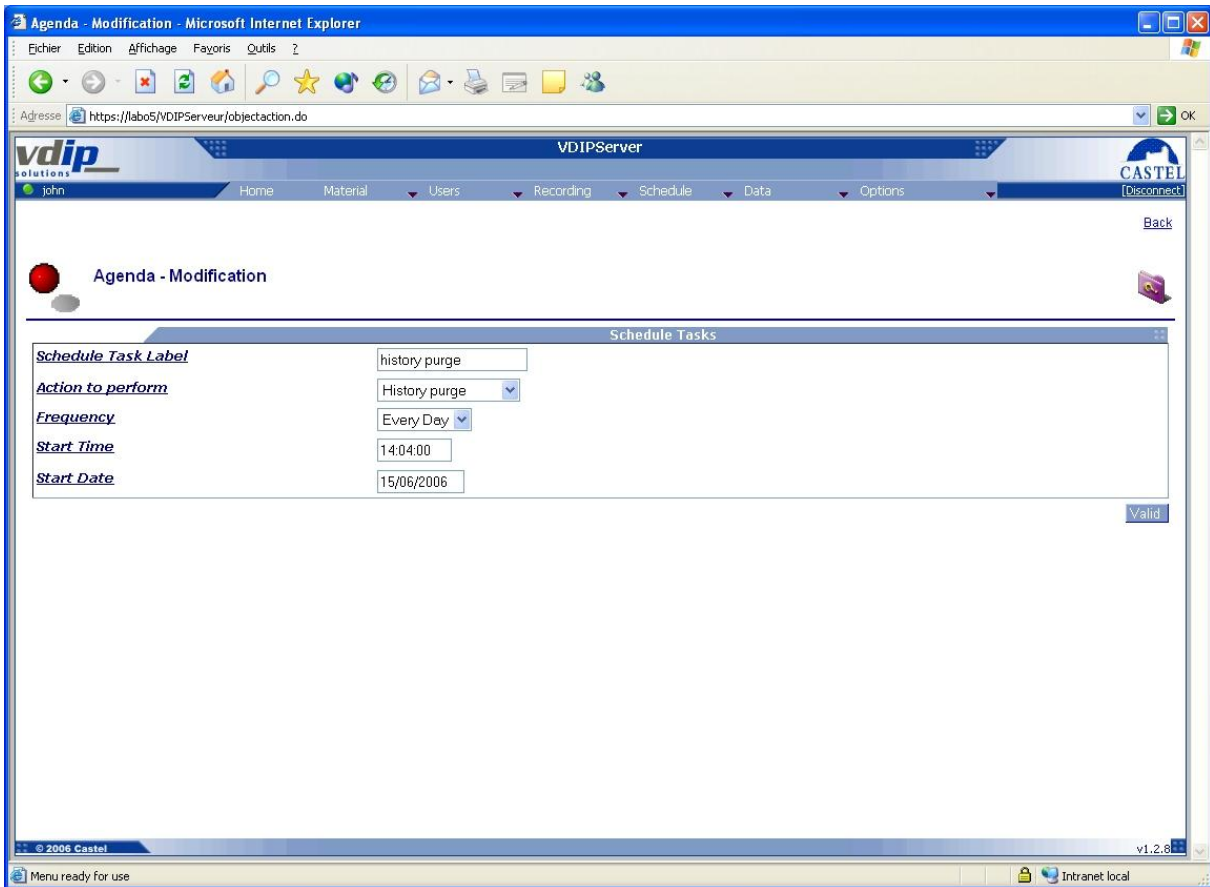
❑ **Schedule Task – Modification**

- ❑ This page allows the user to modify an existing schedule task. The following parameters are available:

- Task label,
- Action to perform,
- Frequency:
 - Daily
 - Weekly
 - Monthly
- Additional information depending on the frequency
 - For a daily frequency
 - Start Time
 - Start Date
 - For a weekly frequency
 - Start time
 - Start date
 - Day of week
 - For a monthly frequency
 - Start time
 - Start date
 - Day of the month
 - For a hourly frequency

- This page is available by clicking on  button displayed on the [Schedule tasks list page](#).
- After entry validation, the application displays the [Schedule tasks list page](#).

□



Agenda - Modification - Microsoft Internet Explorer

Adresse: <https://labo5/VDIPServer/objectaction.do>

VDIPServer

Home Material Users Recording Schedule Data Options

Agenda - Modification

Schedule Tasks

<u>Schedule Task Label</u>	history purge
<u>Action to perform</u>	History purge
<u>Frequency</u>	Every Day
<u>Start Time</u>	14:04:00
<u>Start Date</u>	15/06/2006

Valid

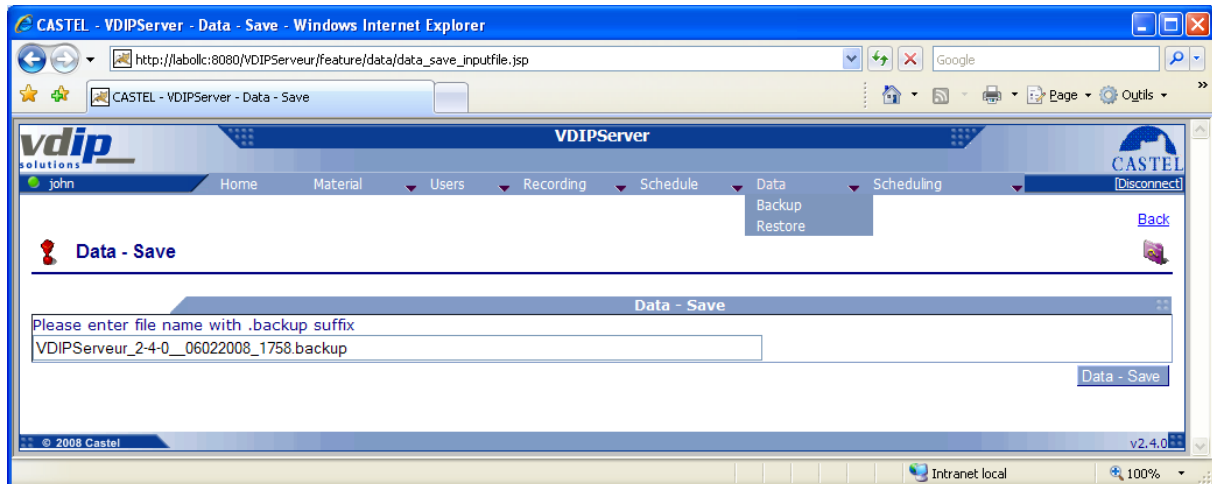
© 2006 Castel v1.2.8

Menu ready for use Intranet local

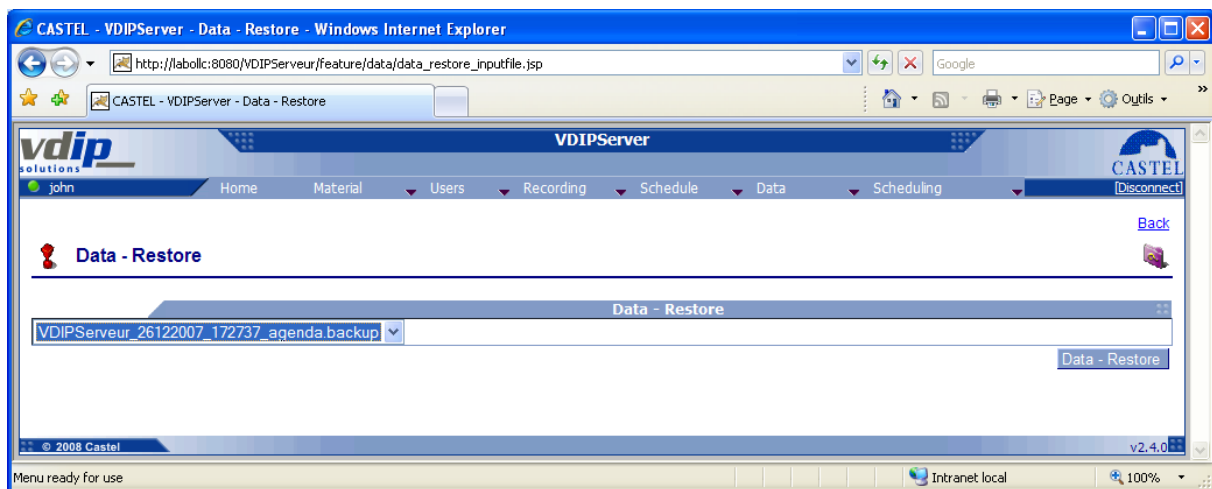
DATA APPLICATION MANAGEMENT

CASTELServer allows the user to save the current configuration and to restore the last one.

- The following page allows the user to backup the database :



- The following page allows the user to restore the database :



- This page is reachable from the following menu [Data/Backup](#) and [Data/Restore](#)

